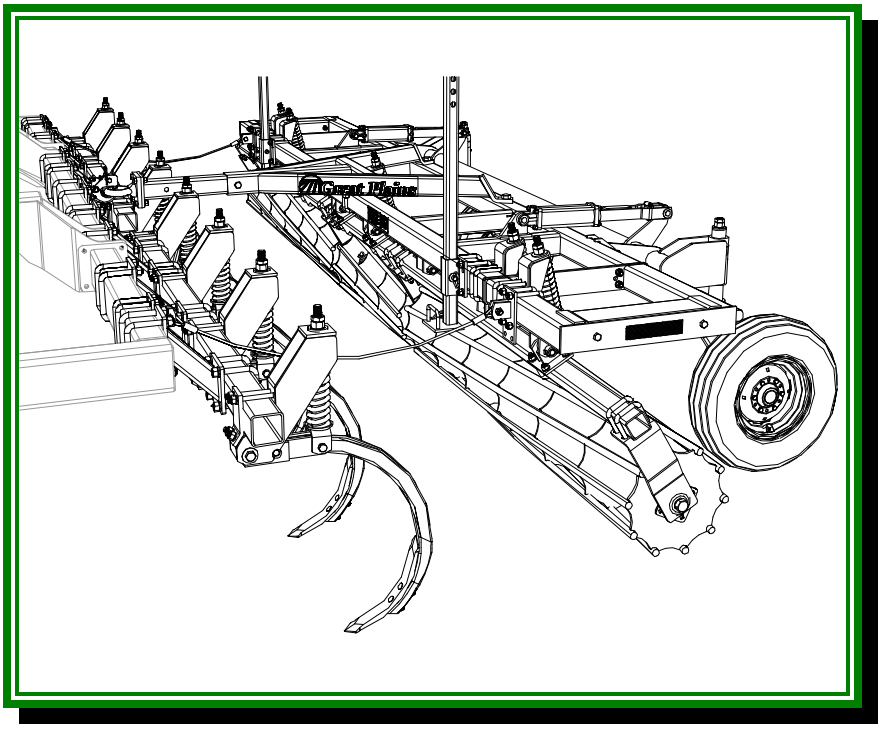
Operators/Parts Manual

Verti-Till 5300, 7225, 7300 & 9225
Finishing Attachments

Great Plains
Manufacturing, Inc.

Read the operator's manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!



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General Information

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Printed in the United States of America.

For your convenience, record your Serial Number, Model Number and the Date Purchased in the spaces provided below. Have this information available when calling your **Great Plains** Authorized Dealer.

Owner’s Information

Name:_____

Address _____

City_____State ____ Zip _____

Phone_____

Name of Dealership _____

Dealer’s Name _____

Address _____

City_____State ____ Zip _____

Phone_____

Serial Number _____

Model Number _____

Date Purchased _____

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Using This Manual

For your safety and to help in developing a better understanding of your equipment we highly recommend that you read the operator sections of this manual. Reading these sections not only provides valuable training but also familiarizes you with helpful information and its location. The parts sections are for reference only and don't require cover to cover reading. After reviewing your manual store it in a dry, easily accessible location for future reference.

Introduction

This manual has been prepared to instruct you in the safe and efficient operation of your **Finishing Attachment**. Read and follow all instructions and safety precautions carefully.

The parts on your **Finishing Attachment** have been specially designed and should only be replaced with genuine **Great Plains** parts. Therefore, should your **Finishing Attachment** require replacement parts go to your **Great Plains** Dealer.

The right hand and left hand as used throughout this manual is determined by facing in the direction the machine will travel when in use unless otherwise stated.

The SAFETY ALERT SYMBOL indicates that there is a potential hazard to personal safety involved and extra safety precautions must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment; hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Watch for the following safety notations throughout your Operators Manual:

DANGER!

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.

WARNING!

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION!

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

Note: Indicates a special point of information which requires your attention.

Safety Rules

Most accidents are the result of negligence and carelessness, usually caused by failure of the operator to follow simple but necessary safety precautions. The following safety precautions are suggested to help prevent such accidents. The safe operation of any machinery is a big concern to consumers and manufacturers. Your **Finishing Attachment** has been designed with many built-in safety features. However, no one should operate this product before carefully reading this Operators Manual.

General Operation & Repair

1. ***NEVER*** *permit anyone near machinery while in operation.*
2. *Excessive speed can cause machine damage.*
3. ***NEVER*** *allow anyone to be near the machine when folding wings.*
4. *Reduce speed of the tractor when transporting over uneven or rough terrain. Avoid all chuck holes and washboard areas in roads.*
5. *Reduce speed of the tractor when transporting over hills or steep slopes.*
6. ***DO NOT*** *lubricate, adjust or repair the machine while it is in operation.*
7. *Use "Slow Moving Vehicle" emblem for warning vehicles approaching from the rear.*
8. ***DO NOT*** *permit smoking, sparks, or an open flame where combustible lubricants or liquids are being used.*
9. ***CAUTION!*** *Escaping fluid under pressure can have sufficient force to penetrate the skin. Check all hydraulic lines and hoses* ***BEFORE*** *applying pressure. Fluid escaping from a very small hole can be almost invisible. Use paper or cardboard,* ***NOT BODY PARTS****, to check for suspected leaks. If injured, seek medical assistance from a doctor that is familiar with this type of injury. Foreign fluids in the tissue must be surgically removed within a few hours or gangrene will result.*

Transporting

1. *Use good judgement when transporting tractor and implements on the highway. Always maintain complete control of the machine.*
2. *Use warning flags or approved warning lights at night and during other periods of poor visibility. Do your best to prevent highway accidents.*
3. *When in transport, use accessory lights and devices for adequate warning to operators of other vehicles and use safety hitch chain. Comply with all Federal, State and Local laws when traveling on public roads.*
4. *Reduce speed of the tractor when transporting over hills or steep slopes.*
5. *Reduce speed of the tractor when transporting over uneven or rough terrain. Avoid all chuck holes and washboard areas in roads.*

Safety Decals

1. *Your* **Finishing Attachment** *come equipped with all safety decals in place. They were designed to help you safely operate your* **Finishing Attachment***. Read and follow their directions.*
2. *Keep safety decals clean and legible.*
3. *Replace all damaged or missing safety decals. To order new safety decals go to your* **Great Plains** *Dealer and refer to the parts section for safety decal package part number.*
4. *Replace these decals whenever they become worn or unreadable. To instal new safety decals:*
   a) *Clean the area the decal is to be placed.*
   b) *Peel backing from the decal. Press firmly on to surface being careful not to cause air bubbles under the decal.*

Assembly & Set-Up

This section covers the proper assembly of the finishing attachment. The reference numbers on the figures give you an indication of the order of assembly. For a complete breakdown of any parts not shown in this assembly section, refer to Section 5, Parts & Hydraulics, starting on page 10. Refer to Section 6, page 26-35, for proper location of attachments. Go to the Appendix for proper bolt torque values.

Ridge Splitter Assembly

Move the machine to a safe, clean working area before proceeding. The ridge splitter assembly will come completely assembled from the factory. Start by locating the ridge splitter assembly. For ease of assembly you should use an over head hoist or fork lift to mount assemblies. Bolt the ridge splitter assembly (1) to the rear bar of the Verti-till using 3/4 x 6 x 5 5/8 u-bolts (2) and secure with lockwashers and hex nuts as shown in Figure 1. Verify placement dimensions for model of machine in the Machine Layout section and tighten bolts. Spring shank preload should be 12¼ inches as measured at spring.

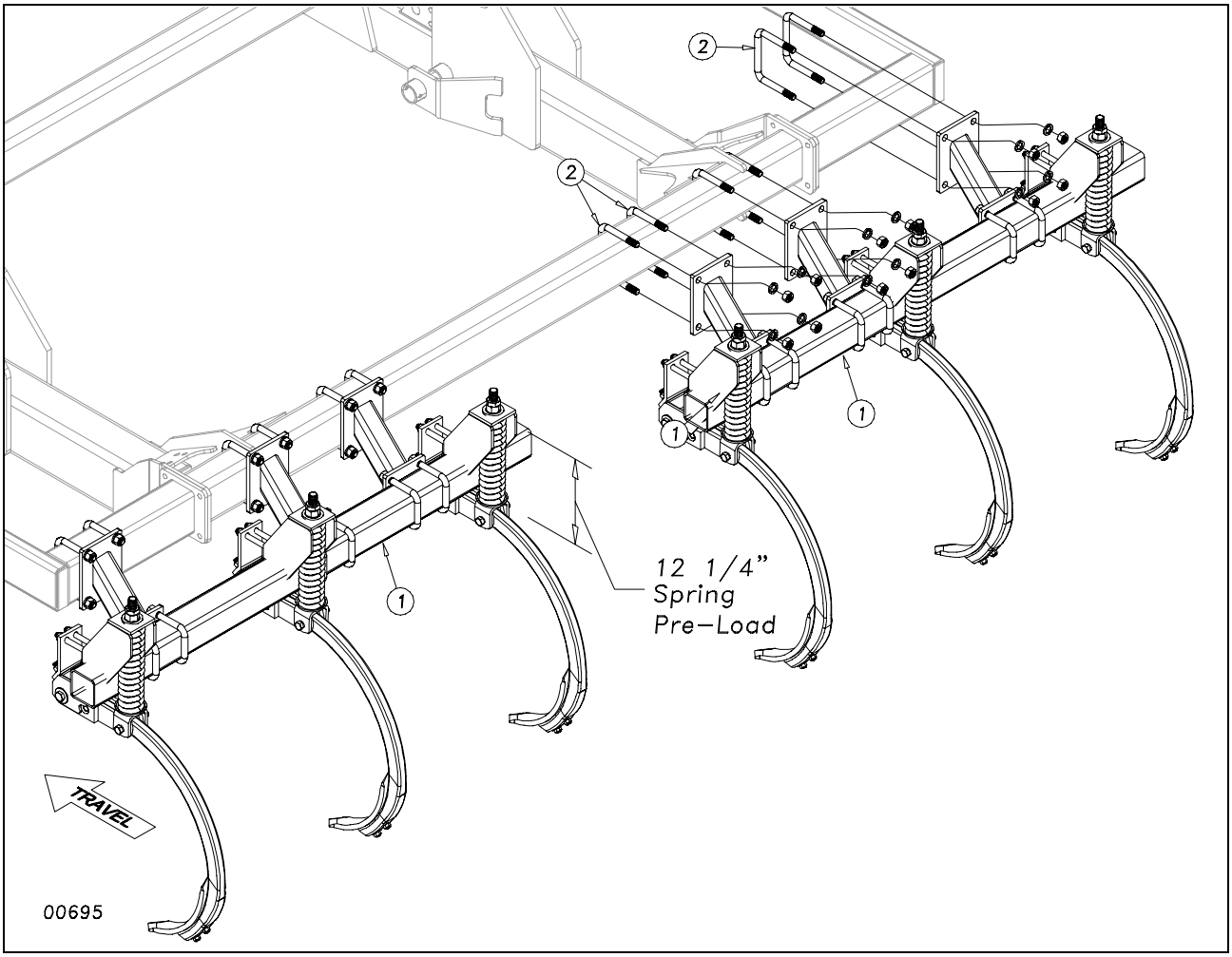

Figure 1

Rolling Harrow Assembly

Move the machine to a safe, clean working area before proceeding. Start by U-bolting the VT rolling harrow brackets (1) to the rear bar of the Verti-till as shown in Figure 2. Use 3/4 x 6 x 5 5/8 u-bolts (2) with lock washers and hex nuts. Refer to Section 6 Machine Layouts for placement dimensions. Bolt the VT rolling harrow arm rest (3) and rolling harrow sleeve (4) to the harrow bracket (1) with three 3/4 x 5 1/2 hex bolts (5) using lock nuts. Draw up snug but ***do not torque***, arm must move freely. Slide the VT rolling harrow arms (6) into the harrow sleeves (4) and bolt through the proper hole with 5/8 x 4 1/2 hex bolts (7) using 5/8 lock nuts.

U-bolt the rolling harrow brackets (8) to the harrow arms (6) using 5/8 x 3 x 4 1/2 u-bolts (9) and lock washers and hex nuts. U-bolt the ball-joint brackets (10) to the rolling harrow module (11) with same hardware as above placing the leading bracket at the dimension on the layout. Tighten the leading ball joint bracket down and leave the rear bracket loose. Attach the harrow module (11) to the harrow arms (6) with the 1 x 4 hex bolts (12) using a nylon lock nut. ***Do not torque*** nylon lock nut. After verifying the placement dimensions on the layout drawing, finish tightening the remaining u-bolts on the brackets.

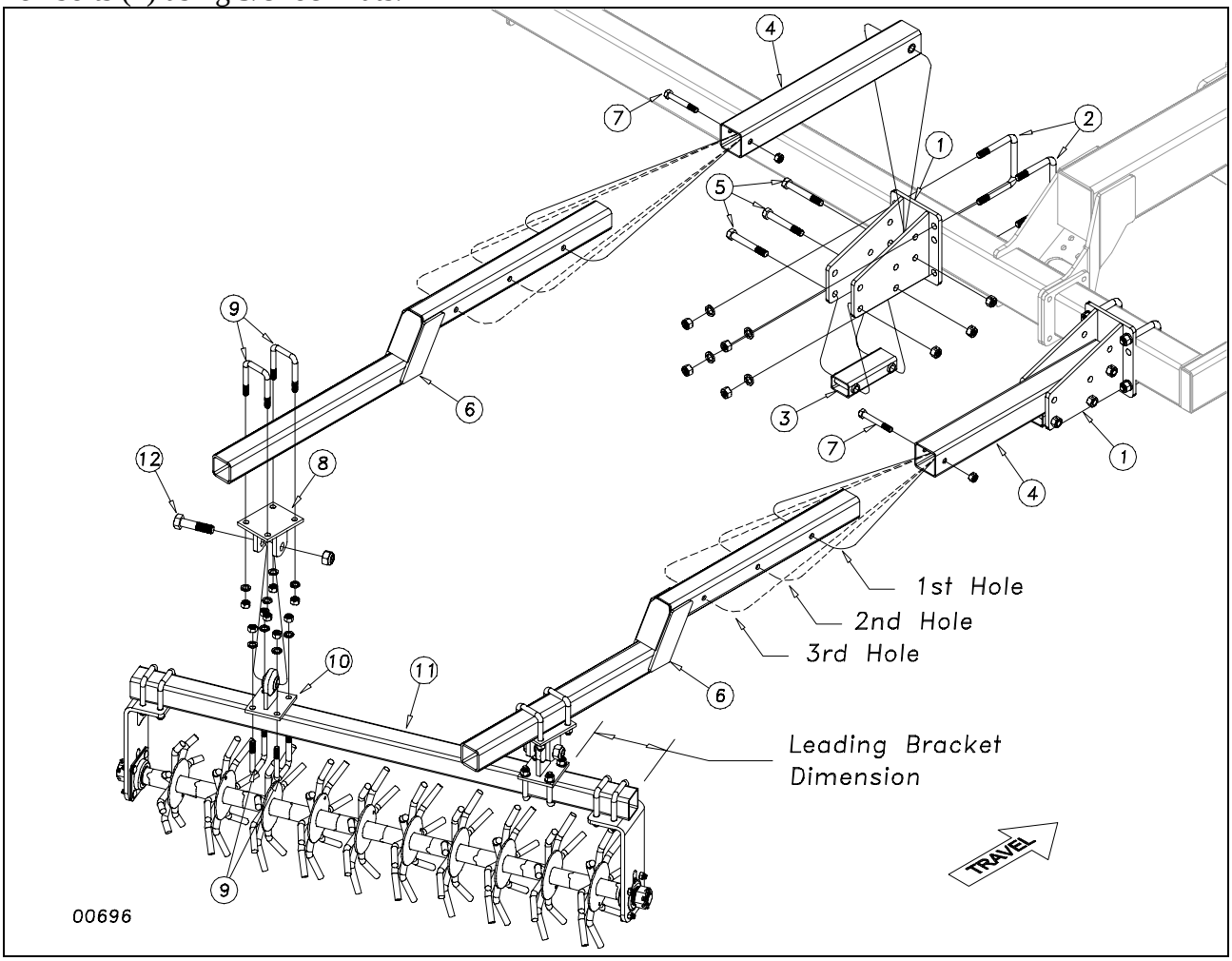

Figure 2

Seedbed Conditioner to Verti-Till Attachment

The Seedbed Conditioner will come completely assembled with the pintle hook, cable and brackets banded to conditioner. Start ***by Carefully taking banding loose*** and bolting the 5-ton pintle hook (1) to the semi-mount pintle bracket (2) with four 1/2 x 2 Gr.8 mounting bolts (3) using 1/2" flat washers, lock washers and hex nuts as shown in Figure 3. U-bolt this assembly to the rear bar of the Verti-Till using two 3/4 x 6 x 5 5/8 u-bolts (4) with lock washers and hex nuts.

U-bolt the semi-mount cable brackets (5) to the Verti-Till rear frame frame with 5/8 x 6 x 5 1/4 u-bolts (6). Secure with 5/8 lock washers and hex nuts (see Section 6 Machine Layouts, for proper placement dimensions).

If the Vert-Till gets a Ridge Splitter attachment, install it as shown in previous assembly instructions.

Hitch the seedbed conditioner to the Verti-Till at the Pintle hook and drawbar ring. Secure Pintle hook latch with wire lock pin. Attach the appropriate length cables (7) along with the cable spacers (8) using the 5/8 bent pins with hairpin cotters (9) on the Verti-Till end.

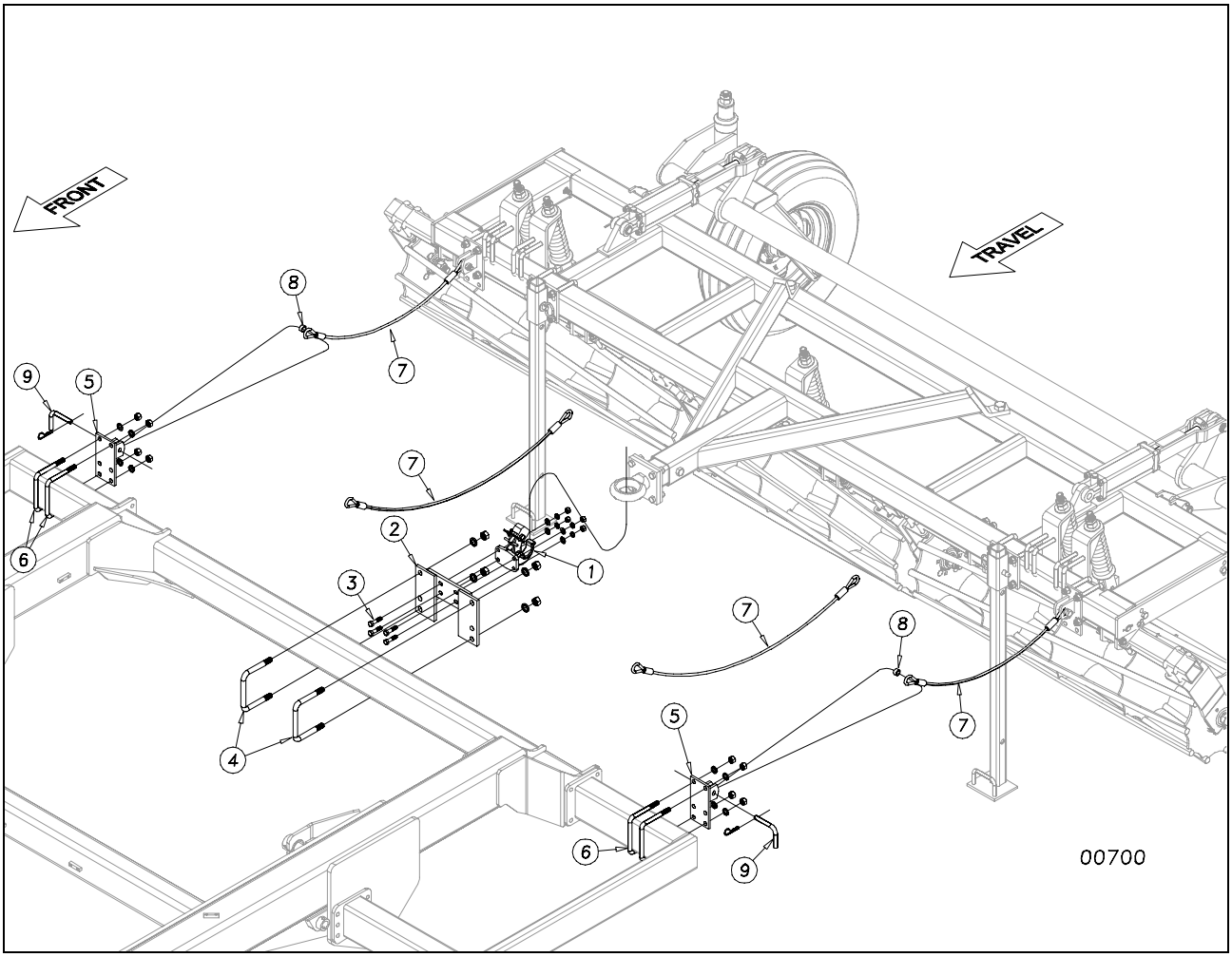

Figure 3

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Operating Instructions

Prior to Going to the Field

1. Both dealer and customer read and thoroughly understand all safety recommendations. (These are found in the Safety Section of this operator manual.)

2. Make sure your tractor horsepower matches the implement you are pulling. This is important so the implement can do the best possible job.

3. Clean all hydraulic couplings and connect to tractor or host implement. Each hydraulic coupling has a colored handle on it and is marked with a cylinder, either extending or retracting.

4. After the seedbed conditioner is attached, raise and lower the seedbed conditioner several times to purge air from the hydraulic system. Again check for hydraulic leaks and tighten or replace if necessary.

5. Check the tire pressure for proper inflation and check the tightness of the lug bolts. Tire pressure information can be found in the Appendix of this manual.

6. Check for any bolts that may need tightened or retightened. Grease all the hinge points. The hubs come pre-greased and will not need more grease at this time.

7. Prior to transporting, fully raise the seedbed conditioner. Install the transport locks. Always use the transport locks when moving from field to field in case of a hydraulic hose failure. You are now ready to go to the field.

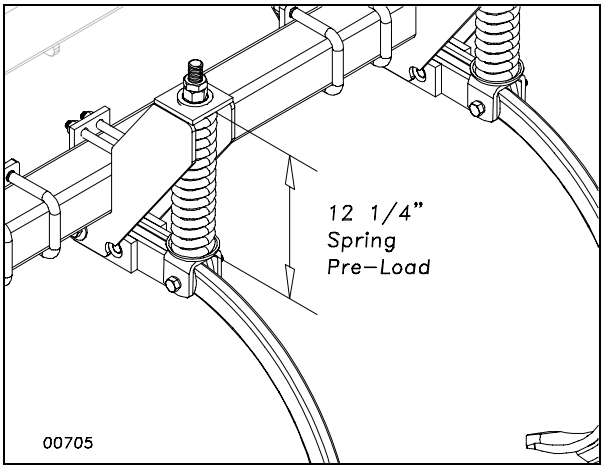
General Operating Instructions and In-Field Adjustments

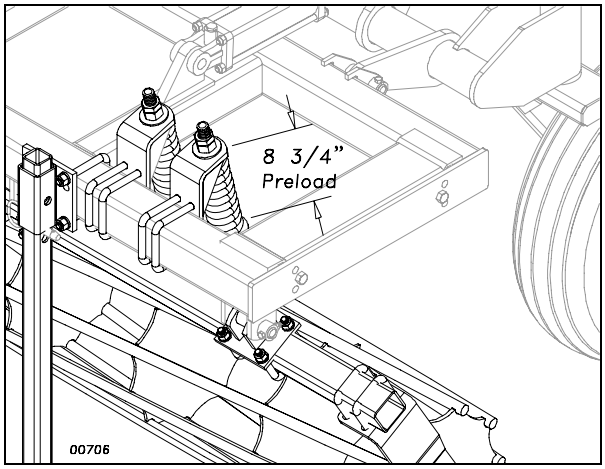
1. Extend the seedbed conditioner lift cylinders and remove the transport locks.

2. Set the pre-load on the ridge splitter shanks to 12 1/4” spring length.

3. Check the pre-load on the seedbed conditioner baskets to 8 3/4” spring length.

4. The seedbed conditioner should be raised with the host implement when turning.





Maintenance & Lubrication

1. Always use the transport lock when working or doing maintenance on the seedbed conditioner. Read and understand all safety decals on your equipment.

2. During the first season of operation, and periodically after that, check your bolts for tightness.

3. Check wheel bearings occasionally for excessive endplay.

4. Replace or rotate worn parts as needed—bolts, clevis pins, bearings, chisel points etc...

5. Check and tighten or replace any hydraulic leaks. Check hoses for any leaks. It is important that there are no leaks on the equipment.

6. **Grease reel bearings and wheel bearings sparingly**. Over greasing may cause damage to seals and reduce the life of the bearing. Grease hinge points periodically.

Reel Bearings
Grease every 50 hours (sparingly).

Wheel Bearings
Grease every 50 hours (sparingly) and check for endplay.

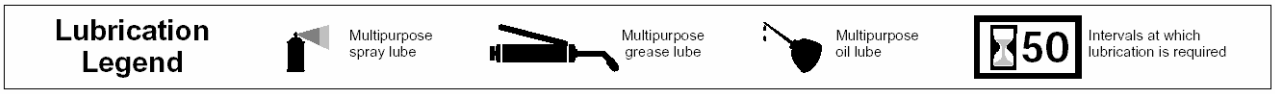
Caster Wheels Pivots
Grease every 10 hours.

7. If machine is stored outdoors over the winter months it is a good idea to retract the cylinders to protect the cylinder rods. This will extend the life of the cylinder seals and reduce internal and external leaks.

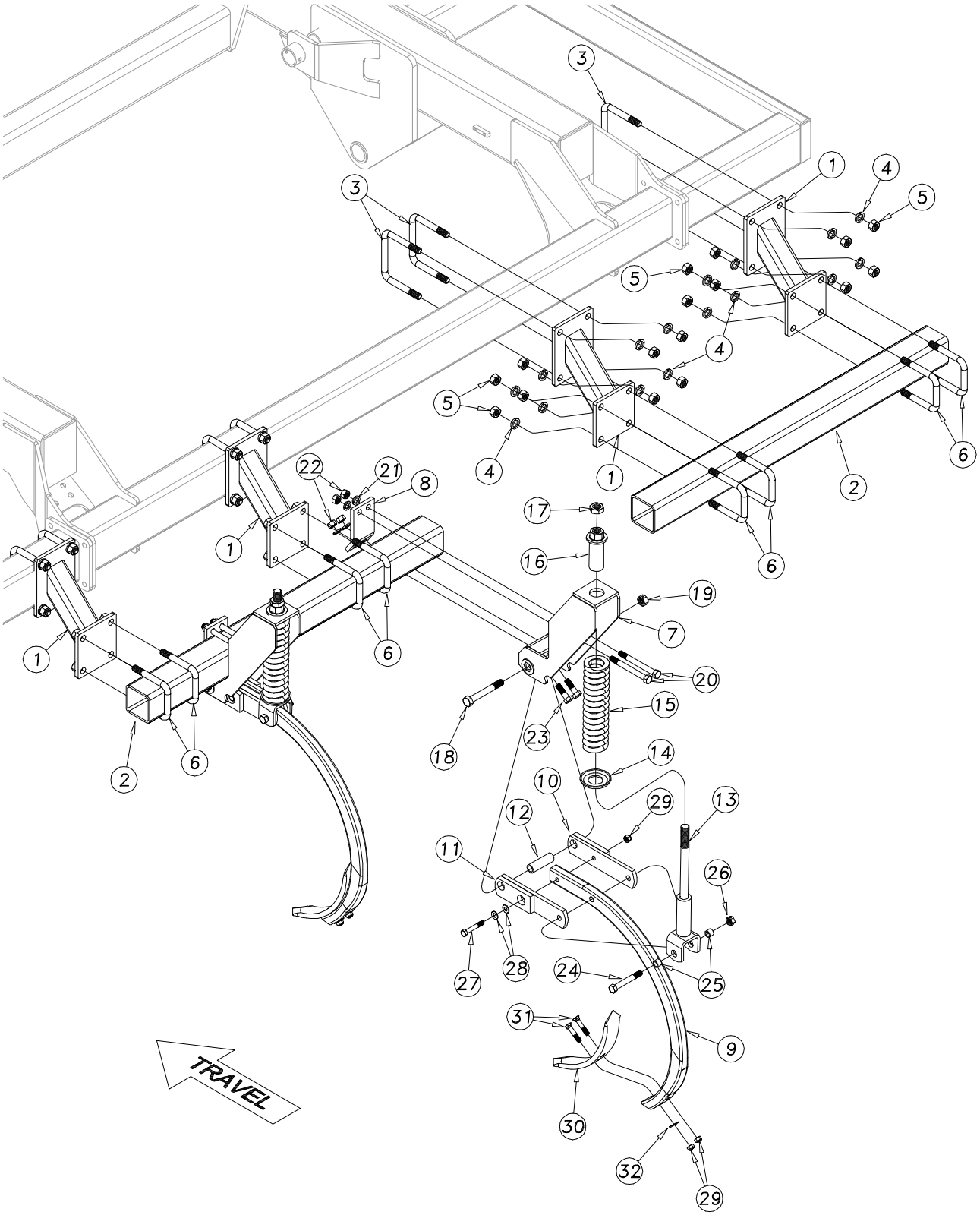
By following and maintaining a routine service and lubrication program, your tillage attachment will give you many years of service.

For more information on operating, adjusting or maintaining your Great Plains Verti-Till Attachment contact your local Great Plains dealer or call

Great Plains Mfg. at (800) 255-9215



Ridge Splitter



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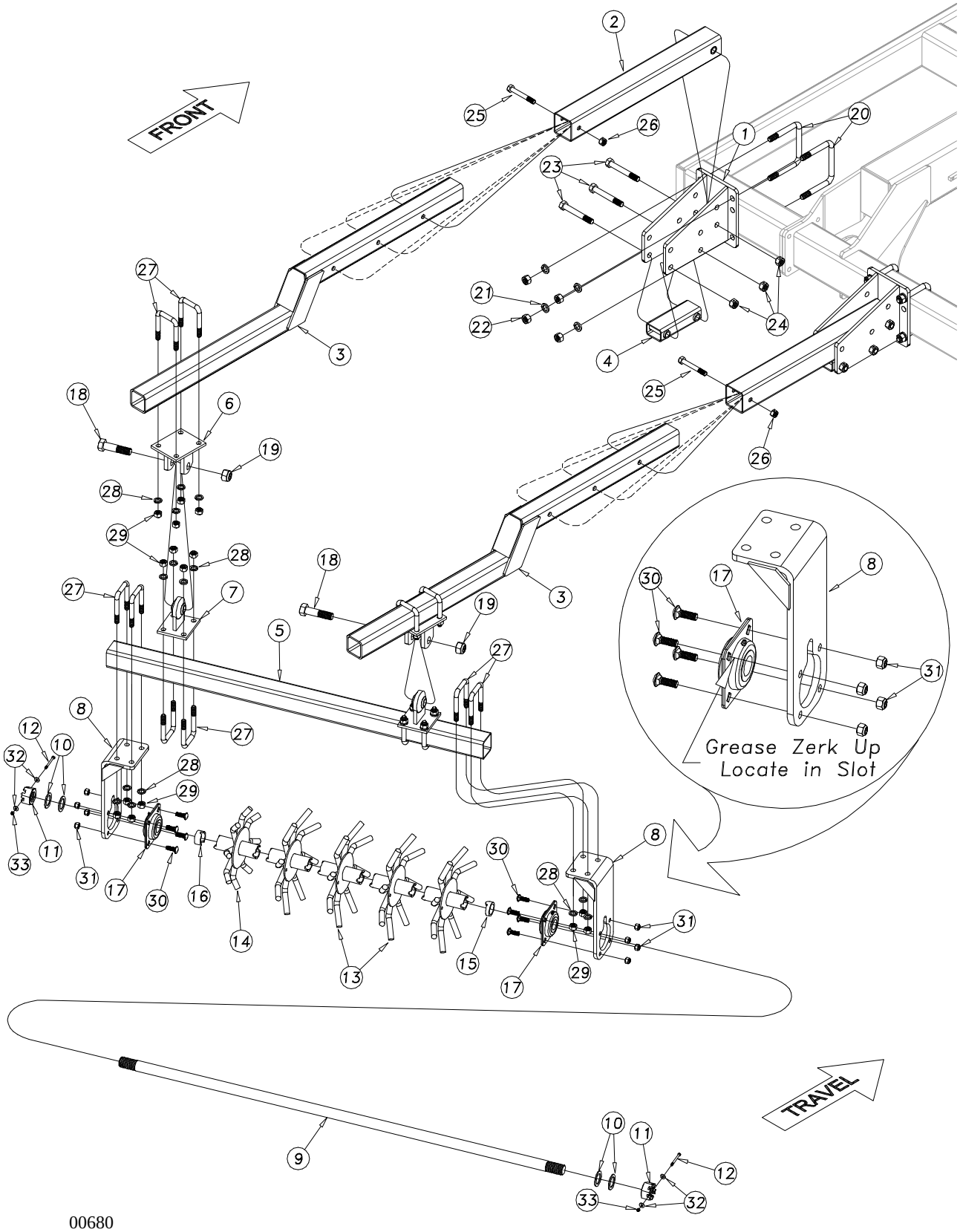
Ridge Splitter

Ref.	Part No.	Part Description	Comments
1.	589-212H	Angled Drop Stub (4x6 Tube)	
2.	5**89-116D**	**❷72 1/2" Splitter Shank Tube (shown)**	**Models VT5300**
	589-087D	**❶50" Splitter Shank Tube**	**Replaced by 589-116D**
	589-081D	**❷102" Splitter Shank Tube**	**Models VT7300**
	589-077D	**❶78" Splitter Shank Tube**	**Replaced by 589-081D**
3.	806-128C	U-Bolt, 3/4 x 6 1/32 x 5 5/8	
4.	804-023C	Lock Washer, 3/4	
5.	803-027C	Hex Nut, 3/4	
6.	806-012C	U-Bolt, 3/4 x 4 1/32 x 5 3/8	
7.	589-135H	Shank Upright	
8.	589-071D	Shank Mount Plate	
9.	820-368C	Max Mulcher Shank	
10.	589-133H	Shank Cradle RH	
11.	589-134H	Shank Cradle LH	
12.	589-072D	Shank Pivot Bushing	
13.	589-131H	Shank Spring Bolt	
14.	589-065D	Cup Washer	
15.	807-217C	Spring Comp. 3.13OD .63W 14.0 Long	
16.	589-132H	Shank Spring Bolt Tightner	
17.	803-030C	Hex Jam Nut, 1"-8	
18.	802-594C	Hex Bolt, 3/4 x 5 1/2 Gr. 5	
19.	803-026C	Lock Nut, 3/4"-10	
20.	802-116C	Hex Bolt, 5/8 x 6 Gr. 5	
21.	804-022C	Lock Washer, 5/8	
22.	803-021C	Hex Nut, 5/8	
23.	802-055C	Hex Bolt, 5/8 x 2 Gr. 5	
24.	802-100C	Hex Bolt, 5/8 x 4 1/2 Gr. 5	
25.	589-070D	Shank Bolt Spacer	
26.	803-024C	Lock Nut, 5/8"-11	
27.	802-039C	Hex Bolt, 1/2 x 3 Gr. 5	
28.	804-094C	Washer, Flat 1/2 Hard ASTMF4	
29.	803-342C	Top Lock Nut, 1/2"-13	
30.	820-032C	Chisel Point, 5/8 x 2 x 15	
31.	802-590C	Plow Bolt, 1/2-13 x 2 1/2 Gr. 5	
32.	804-017C	Washer, Flat 1/2 USS	

Legend: ❶ = 1st revision; ❷ = 2nd revision, ❸ = 3rd revision; ● use up existing stock; ⊗ not interchangeable; ⊗①❷Revision 2 is not interchangeable with 1

Rolling Harrow

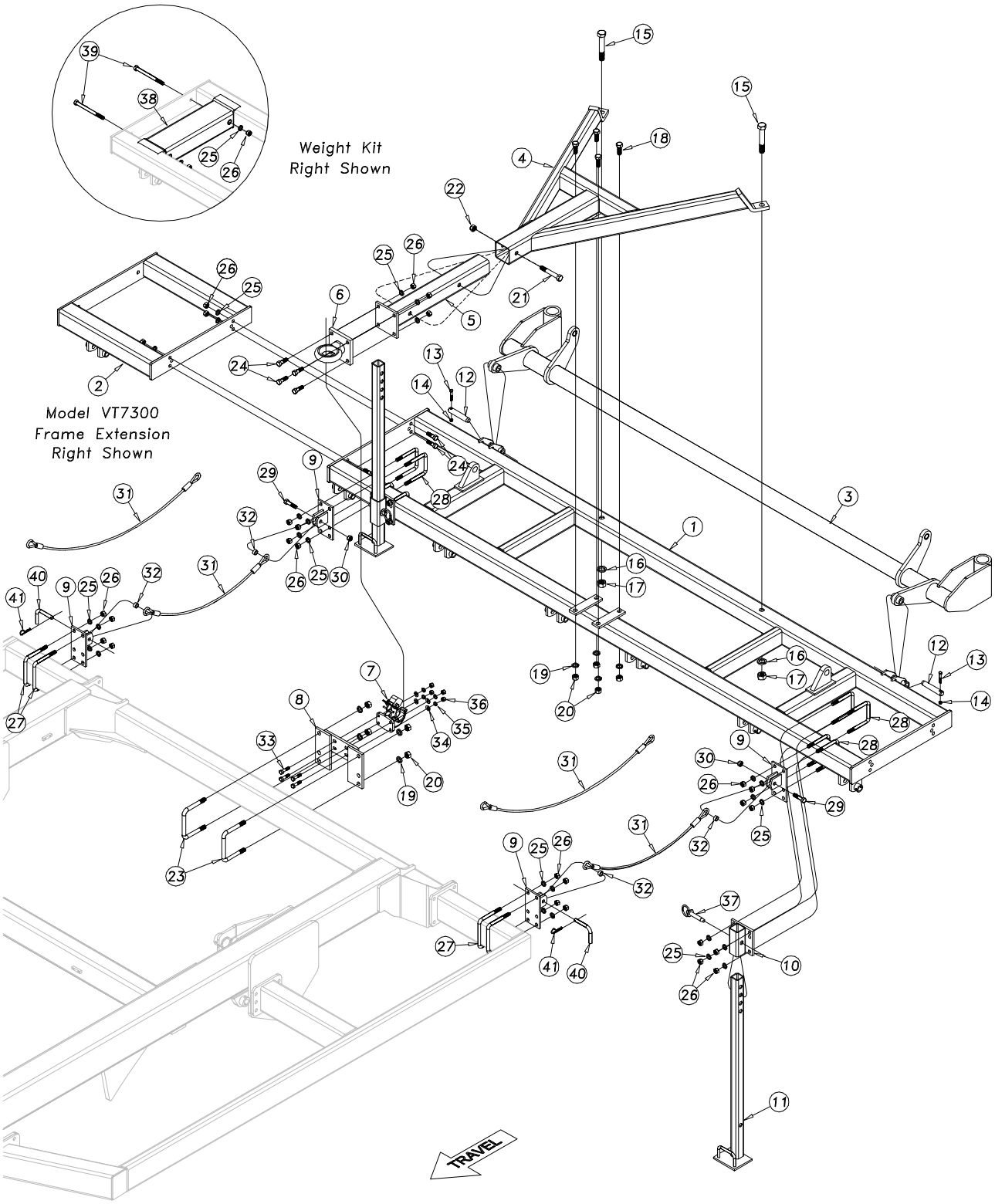


Rolling Harrow

Ref.	Part No.	Part Description	Comments
1.	589-256H	VT Rolling Harrow Bracket	
2.	589-218H	VT Rolling Harrow Sleeve	
3.	589-219H	VT Rolling Harrow Arm	
4.	589-255H	VT Rolling Harrow Arm Rest	
5.	578-003D	Rolling Spike Tube (64)	10 Wheel Gang
	578-004D	Rolling Spike Tube (70)	11 Wheel Gang
	578-005D	Rolling Spike Tube (76)	12 Wheel Gang
6.	589-220H	Bracket – Rolling Harrow LH	
7.	589-064H	Ball Joint Bracket	
8.	589-257H	Bearing Hanger (Long)	
9.	578-013D	Rolling Spike Bolt (68 1/4)	10 Wheel Gang
	578-014D	Rolling Spike Bolt (74 1/4)	11 Wheel Gang
	578-015D	Rolling Spike Bolt (80 1/4)	12 Wheel Gang
10.	804-063C	Washer Machine 2.25 x 1.50 x 10GA	
11.	803-301C	Nut Hex Slotted, 1 1/2-6	
12.	**802-804C**	**❷Hex Bolt, 1/4-20 x 2 3/4 Gr.8**	
	805-358C	**❶Roll Pin, Spirol 1/4 x 2 1/2 Heavy**	**Changed to 802-804C**
13.	589-258H	Spike Wheel Large	
14.	589-251H	Spike Wheel Small	
15.	890-860C	Spider Wheel Front Spacer	
16.	890-861C	Spider Wheel Rear Spacer	
17.	822-208C	Bearing Flange 1 1/2 ID 5 IN SQ	
18.	802-073C	Hex Bolt, 1-8 x 4 Gr. 5	
19.	803-038C	Nylon Lock Nut, 1”	
20.	806-128C	U-Bolt, 3/4-10 x 6 1/32 x 5 5/8	
21.	804-023C	Lock Washer, 3/4	
22.	803-027C	Hex Nut, 3/4	
23.	802-594C	Hex Bolt, 3/4-10 x 5 1/2 Gr. 5	
24.	803-026C	Lock Nut, 3/4”-10	
25.	802-100C	Hex Bolt, 5/8-11 x 4 1/2 Gr. 5	
26.	803-024C	Hex Lock Nut, 5/8-11	
27.	806-183C	U-Bolt, 5/8 x 3 1/32 x 4 1/2	
28.	804-022C	Lock Washer, 5/8	
29.	803-021C	Hex Nut, 5/8	
30.	802-106C	Carriage Bolt, 1/2-13 x 1 1/2	
31.	803-342C	Lock Nut, Top 1/2-13	
32.	804-007C	Flat Washer, 1/4	
33.	803-255C	Nylon Hex Nut, 1/4-20	

Legend: ❶ = 1st revision; ❷ = 2nd revision, ❸ = 3rd revision; ● use up existing stock; ⊗ not interchangeable; ⊗①❷Revision 2 is not interchangeable with 1

Seedbed Conditioner Frame



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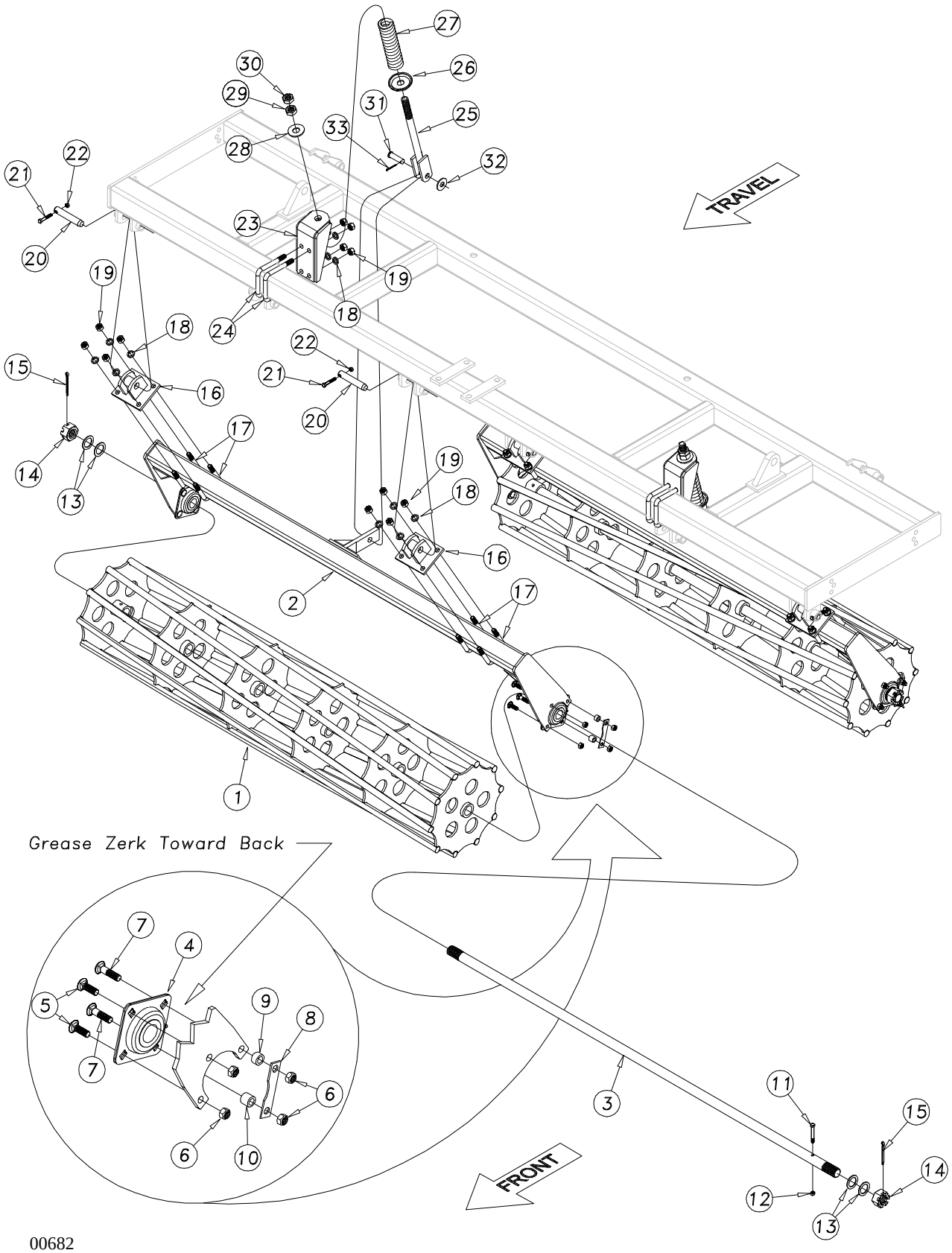
Seedbed Conditioner Frame

Ref.	Part No.	Part Description	Comments
1.	540-116H	12’ Center Frame	
2.	540-080H	Frame Extension RH (shown)	Model VT7300
	540-081H	Frame Extension LH	Model VT7300
3.	540-082H	12’ Torque Tube Semi-Mount	
4.	540-118H	Semi-Mount Hitch Frame	
5.	540-117H	Semi-Mount Slide Tube	
6.	890-156C	Drawbar Ring Forged 4 Bolt	
7.	890-137C	Pintle Hook 5 Ton, Light Duty, w/bolts	
8.	540-119H	Semi-Mount Pintle Bracket	
9.	540-120H	Semi-Mount Cable Bracket	
10.	540-089H	Parking Stand Bracket	
11.	540-088H	Parking Stand	
12.	805-292C	Pin, 1 x 5 1/2 Hard	
13.	802-483C	Hex Bolt, 3/8-16 x 2 1/4 Gr. 8	
14.	803-123C	Top Lock Nut, 3/8-16	
15.	802-357C	Hex Bolt, 1-8 x 6 Gr. 5	
16.	804-027C	Lock Washer, 1”	
17.	803-031C	Hex Nut, 1”	
18.	802-064C	Hex Bolt, 3/4-10 x 2 Gr. 5	
19.	804-023C	Lock Washer, 3/4	
20.	803-027C	Hex Nut, 3/4-10	
21.	802-069C	Hex Bolt, 3/4-10 x 5 Gr. 5	
22.	803-025C	Nylon Lock Nut, 3/4-10	
23.	806-128C	U-Bolt 3/4-10 x 6 1/32 x 5 5/8	
24.	802-055C	Hex Bolt 5/8-11 x 2 Gr. 5	
25.	804-022C	Lock Washer, 5/8	
26.	803-021C	Hex Nut, 5/8-11	
27.	806-016C	U-Bolt 5/8-11 x 6 1/32 x 5 1/4	
28.	806-184C	U-Bolt 5/8-11 x 4 1/32 x 5 1/2	
29.	802-058C	Hex Bolt, 5/8-11 x 2 1/2 Gr. 5	
30.	803-148C	Nylon Lock Nut, 5/8-11	
31.	890-136C	Seedbed Cable Short (40”)	Without Ridge Splitter
	890-135C	Seedbed Cable Long (54”)	With Ridge Splitter
32.	540-170D	Semi-Mount Cable Spacer	
33.	802-786C	Hex Bolt, 1/2-13 x 2 Gr. 8	
34.	804-094C	Washer, Flat 1/2 Hard ASTMF436	
35.	804-015C	Lock Washer, 1/2	
36.	803-020C	Hex Nut, 1/2-13	
37.	805-364C	Pin, Hitch 3/4 x 3	
38.	540-048H	Weight Box	
39.	802-146C	Hex Bolt, 5/8-11 x 7 1/2 Gr. 5	
40.	805-197C	Bent Shank, Lock Pin, 5/8 OD	
41.	805-032C	Pin Hair Cotter .148 Wire	

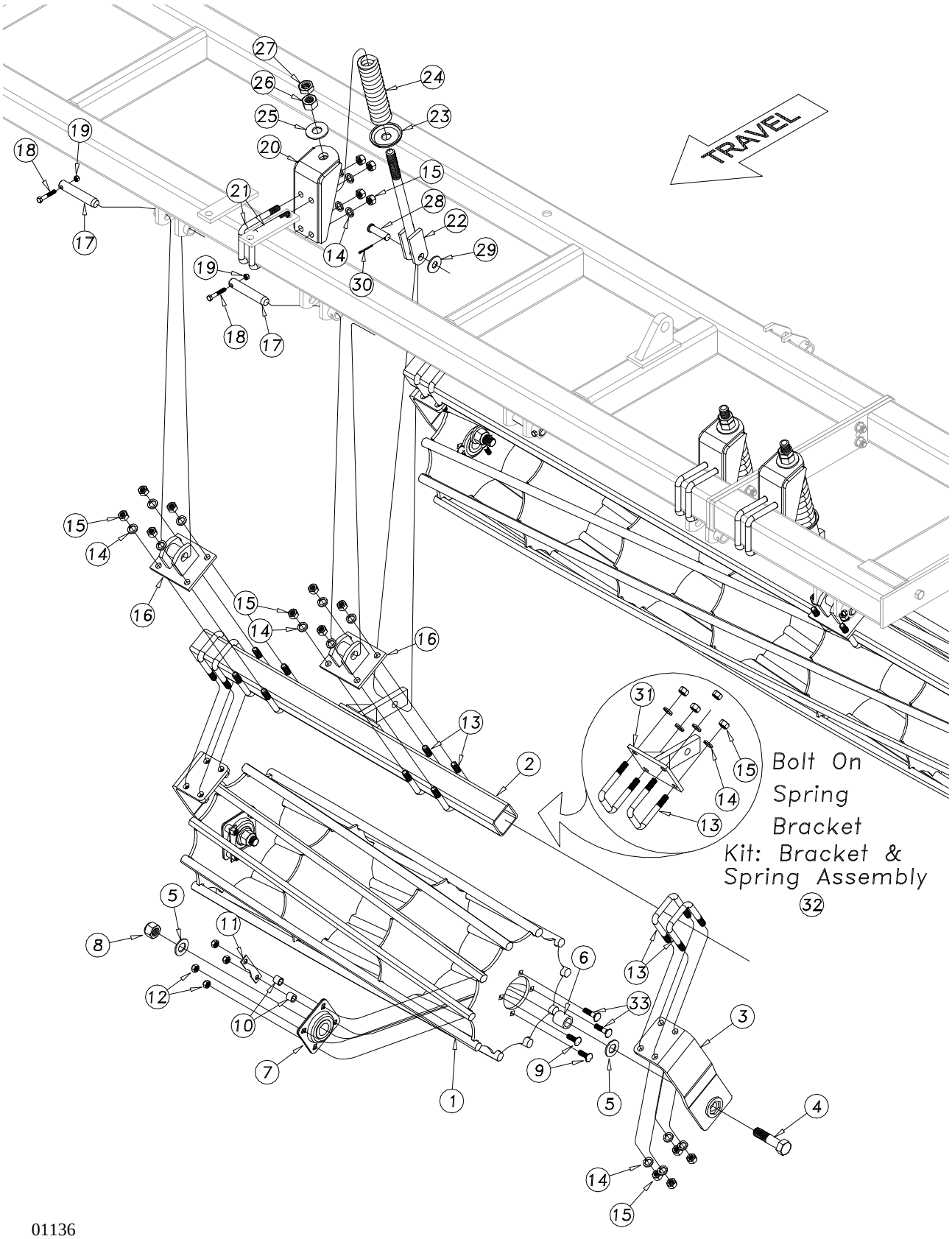
Seedbed Conditioner Baskets (S/N 1079MM-)



Seedbed Conditioner Baskets (S/N 1079MM-)

Ref.	Part No.	Part Description	Comments
1.	540-007H	Wheel Basket, 45" Right	Model VT7300 & 9225
	540-009H	Wheel Basket, 75" Right (shown exploded)	Model VT5300 - VT9225
	540-045H	Wheel Basket, 75" Left (shown assembled)	Model VT5300 - VT7300
2.	540-097H	Wheel Basket Bracket, 45"	Model VT7300 & VT9225
	540-099H	Wheel Basket Bracket, 75" (shown)	Model VT5300 - VT9225
3.	540-055D	Reel Bolt, 45" Wheel Basket	Model VT7300 & VT9225
	540-053D	Reel Bolt, 75" Wheel Basket (shown)	Model VT5300 – VT9225
4.	822-208C	Bearing Flange 1 1/2 ID RD 5 Inch Square	
5.	802-106C	Carriage Bolt, 1/2 x 1 1/2 Gr. 5	
6.	803-342C	Top Lock Nut, 1/2-13	
7.	802-129C	Carriage Bolt, 1/2 x 2 Gr. 5	
8.	589-085D	Zerk Guard	
9.	585-013D	1/2 Long x 1/2” Bolt Spacer	
10.	550-134D	3/4 Long x 1/2” Tine Stop/Spacer	
11.	802-024C	Hex Bolt, 3/8 x 3	
12.	803-078C	Nylon Lock Nut, 3/8	
13.	803-301C	Slotted Hex Nut, 1 1/2	
14.	804-063C	Machine Washer, 1 1/2	Use as needed
15.	805-115C	Cotter Pin, 1/4 x 3	
16.	540-014H	Reel Hanger Bracket	
17.	806-183C	U-Bolt, 5/8 x 3 x 4 1/2	
18.	804-022C	Lock Washer, 5/8	
19.	803-021C	Hex Nut, 5/8	
20.	805-292C	Pin, 1 x 5	
21.	802-483C	Hex Bolt, 3/8-16 x 2 1/4 Gr. 8	
22.	803-123C	Top Lock Nut, 3/8-16	
23.	540-015H	Spring Bracket	
24.	806-184C	U-Bolt, 5/8 x 4 1/32 x 5 1/2	
25.	540-002H	Spring Bolt	
26.	550-125D	Cupped Washer	
27.	807-255C	Spring Comp 3.00OD .594W 9.81L	
28.	804-028C	Flat Washer, 1"	
29.	803-031C	Hex Nut, 1"-8	
30.	803-030C	Jam Nut, 1"-8	
31.	805-140C	Clevis Pin, 3/4 x 2 1/2	
32.	804-024C	Flat Washer, 3/4	
33.	805-225C	Cotter Pin, 1/8 x 1 1/2	

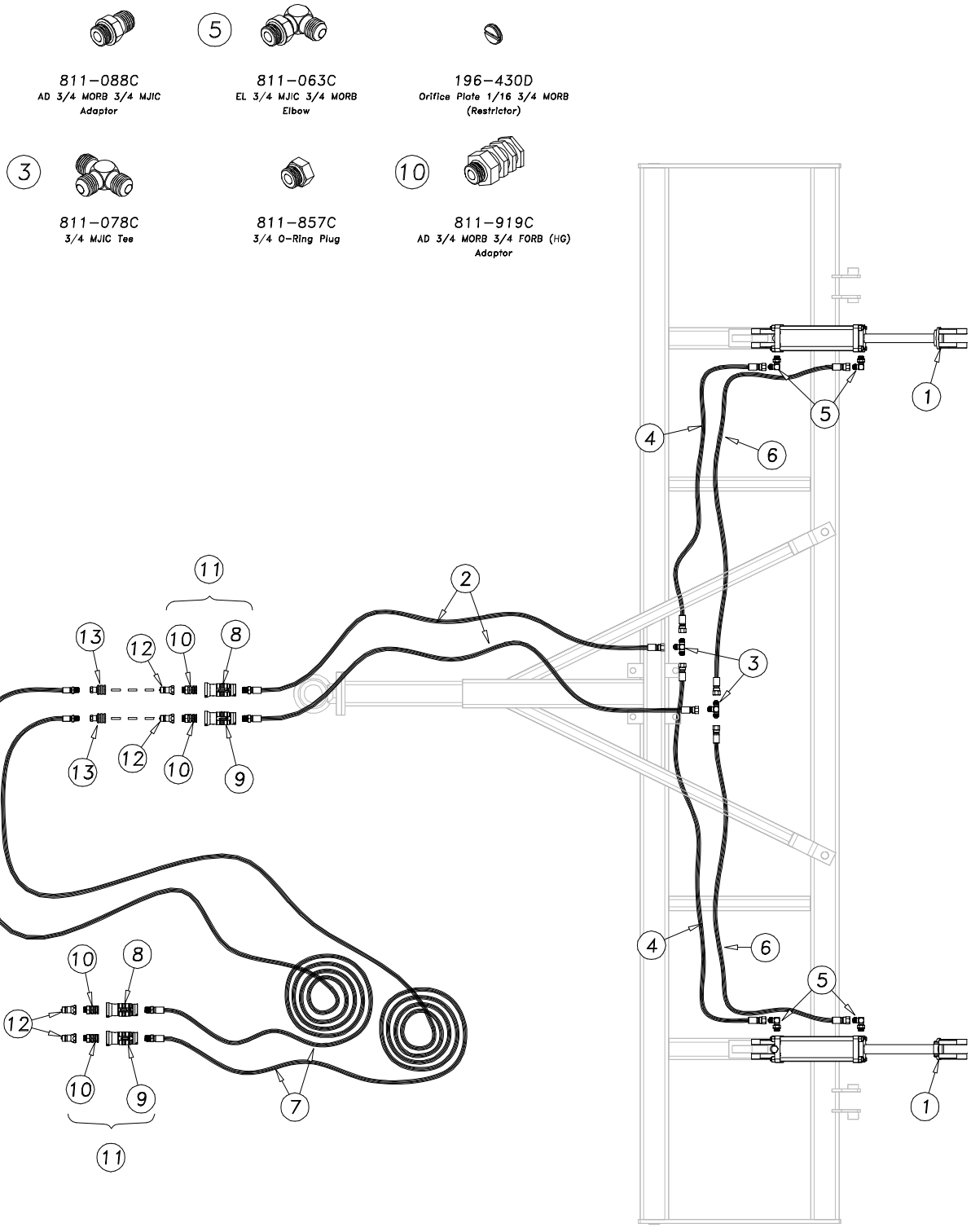
Seedbed Conditioner Baskets (S/N 1080MM+)



Seedbed Conditioner Baskets (S/N 1080MM+)

Ref.	Part No.	Part Description	Comments
1.	540-126H	Reel Basket, 45" Right (shown)	
	540-128H	Reel Basket, 60" Right	
	540-129H	Reel Basket, 60" Left	
	540-132H	Reel Basket, 90" Right	
	540-133H	Reel Basket, 90" Left	
2.	540-122H	Reel Tube(47 1/2) shown	
	540-123H	Reel Tube(62 1/2)	
	540-125H	Reel Tube(92 1/2)	
3.	540-121H	Reel Bearing Hanger SC	
4.	802-073C	Hex bolt 1-8 x 4 Gr.5	
5.	148-404D	1 Hardened Spindle Washer	
6.	540-180D	Spacer, 1 1/2 OD	
7.	822-208C	Bearing Flange 1 1/2 ID RD 5IN SQ	
8.	803-038C	Nylon Lock Nut, 1-8	
9.	802-106C	Carriage Bolt, 1/2-13 x 1 1/2 Gr.5	
10.	550-134D	3/4 Long x 1/2" Tine Stop/Spacer	
11.	589-085D	Zerk Guard Rolling Harrow	
12.	803-342C	Lock Nut, Top 1/2-13	
13.	806-183C	U-Bolt, 5/8-11 x 3 x 4 1/2	
14.	804-022C	Lock Washer, 5/8	
15.	803-021C	Hex Nut, 5/8-11	
16.	540-014H	Reel Hanger Bracket	
17.	805-292C	Pin, 1 x 5 1/2	
18.	802-483C	Hex Bolt, 3/8-16 x 2 1/4 Gr.8	
19.	803-123C	Top Lock Nut, 3/8-16	
20.	540-015H	Spring Bracket	
21.	806-184C	U-Bolt, 5/8-11 x 4 x 5 1/2	
22.	540-002H	Spring Bolt	
23.	550-125D	Cupped Washer	
24.	807-255C	Spring, Comp 3.00OD .594W 9.8L	
25.	804-028C	Flat Washer, 1"	
26.	803-031C	Hex Nut, 1-8	
27.	803-030C	Jam Nut, 1-8	
28.	805-140C	Clevis Pin, 3/4 x 2 1/2	
29.	804-024C	Flat Washer, 3/4	
30.	805-225C	Cotter Pin, 1/8 x 1 1/2	
31.	540-142H	Bolt on Spring Bracket	
32.	540-143V	Spring Addition Kit	Items 20-30, 13-15 & 31
33.	802-129C	Carriage Bolt, 1/2-13 x 2 Gr.5	

Seedbed Conditioner Hydraulics



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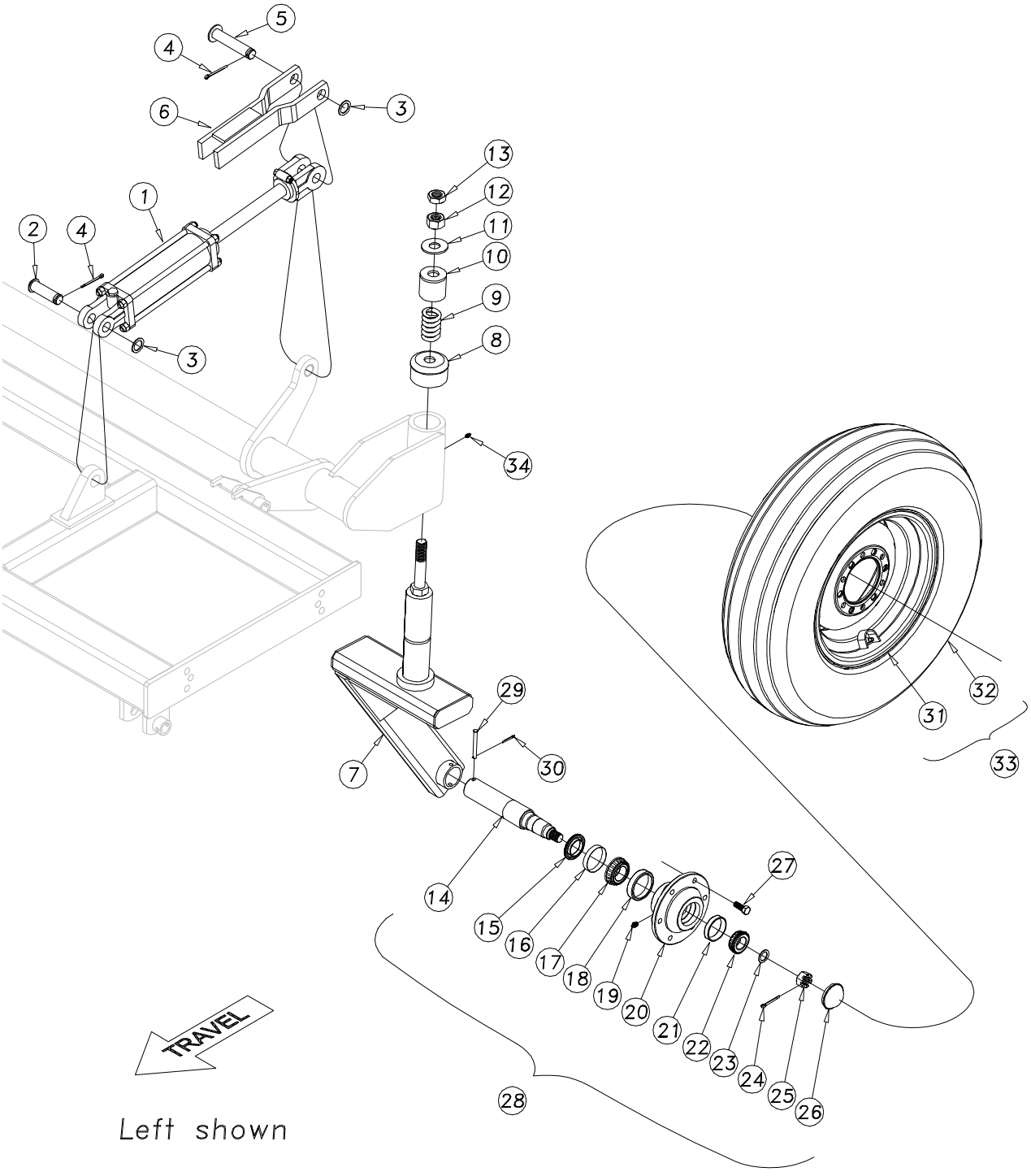
Seedbed Conditioner Hydraulics

Ref.	Part No.	Part Description	Comments
1.	810-482C	CYL 3 x 8 x 1.25 Rod Tie 3000#	GP Seal Kit # 810-015C
2.	841-053C	HH3/8R2 072 3/4MORB 3/4FJIC	
3.	811-078C	Tee, TE 3/4MJIC	
4.	811-964C	HH3/8R2 051 3/4FJIC	
5.	811-063C	Elbow, EL 3/4MJIC 3/4MORB	
6.	811-947C	HH3/8R2 065 3/4FJIC	
7.	841-054C	HH3/8R2 360 3/4FMORB	
8.	811-917C	Hydra Grip Handle, Yellow Extend	
9.	811-918C	Hydra Grip Handle, Yellow Retract	
10.	811-919C	Adaptor, AD 3/4 MORB 3/4 FORB (HG)	
11.	548-004S	HG Pair Yellow MORB-FORB	Includes items 8, 9 & 10
12.	811-394C	Coupler, CP 3/4 FORB MALE QD Poppet Type	
13.	811-870C	Coupler, CP 3/4 FORB FEMALE QD (Poppet) Type	

Seedbed Conditioner Transport



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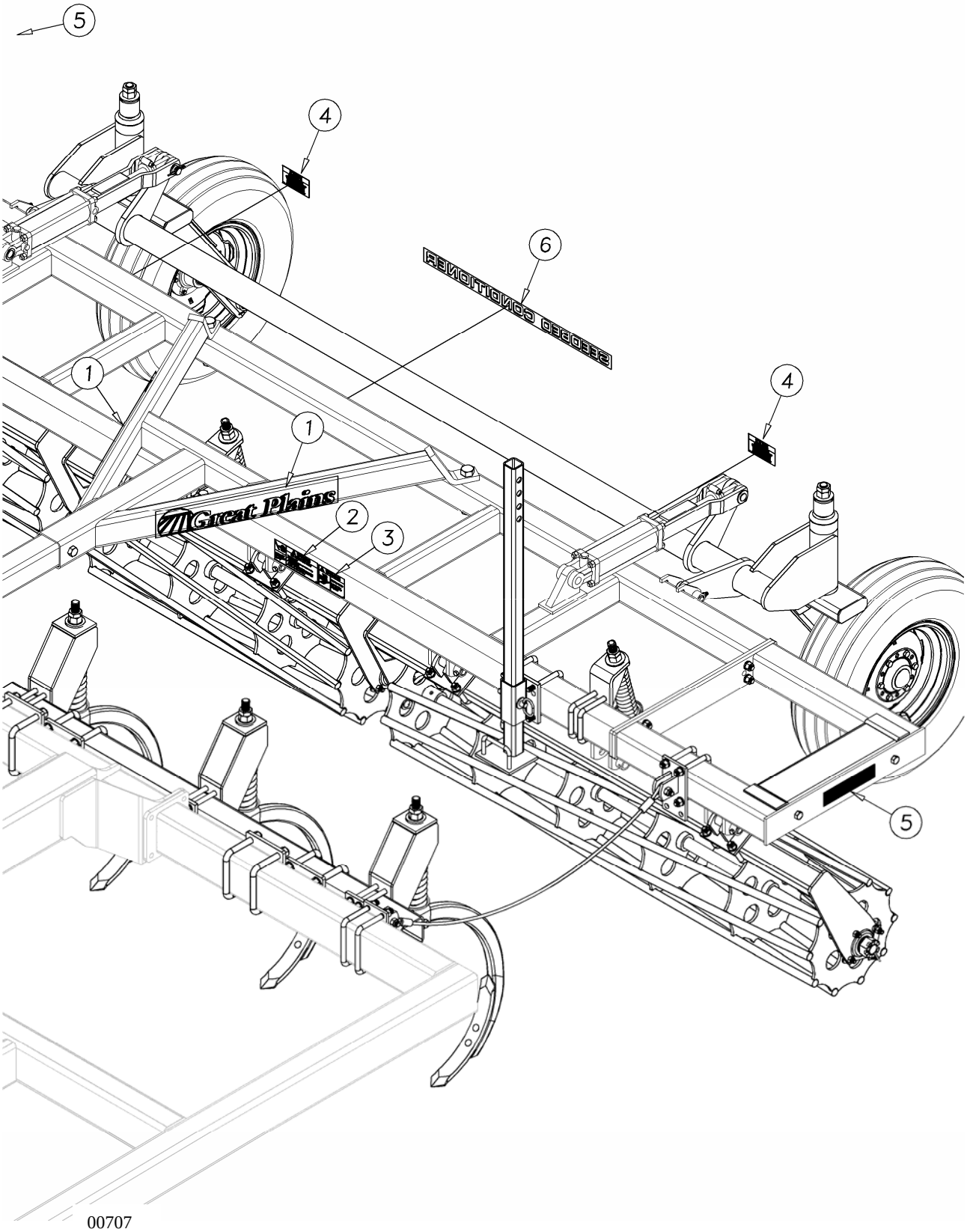
Seedbed Conditioner Transport

Ref.	Part No.	Part Description	Comments
1.	810-482C	CYL 3 x 8 x 1.25 Rod Tie 3000#	GP Seal Kit # 810-015C
2.	805-124C	Clevis Pin, 1 x 3 1/16, Gr. 5	
3.	804-028C	Machine Washer, 1”	
4.	805-058C	Cotter Pin, 3/16 x 2	
5.	805-360C	Pin, 1 x 4 1/2 w/Keeper	
6.	540-023H	Transport Lock	
7.	575-533H	Caster Wheel Arm, RH	
	575-534H	Caster Wheel Arm, LH (shown)	
8.	575-539H	Caster Gauge Wheel Friction Cap	
9.	807-226C	Spring Comp. 1 13/16 OD x 3/8 W x 2 3/4 Long	
10.	575-540H	Caster Gauge Wheel Spring Cover	
11.	804-028C	Flat Washer, 1”	
12.	803-031C	Hex Nut, 1"	
13.	803-030C	Jam Nut, 1"	
14.	560-178D	Spindle, 2 x 12 (Q888)	
15.	816-398C	Seal (CR16286)	
16.	816-396C	Wear Sleeve (CR081071)	
17.	822-198C	Inner Cone (JL69349)	
18.	822-197C	Inner Cup (JL69310)	
19.	800-221C	Grease Zerk, 1/8-27 NPT Straight	
20.	815-142C	Hub Casting w/cups	
21.	822-020C	Outer Cup (LM67010)	
22.	822-021C	Outer Cone (LM67048)	
23.	804-055C	Washer Spindle, 7/8	
24.	805-089C	Cotter Pin, 5/32 x 1 1/2	
25.	803-029C	Slotted Hex Nut, 7/8-14	
26.	890-781C	Dust Cap	
27.	802-632C	Wheel Bolt, 1/2 x 1 1/4	
28.	815-212C	Hub 6-Bolt Spindle 2x12 888	Includes Items 14 thru 27
29.	805-324C	Clevis Pin, 5/16 x 3, w/cotter	
30.	805-363C	Cotter Pin, 1/8 x 1	
31.	814-220C	Rim, 15 x 6, 6-bolt	
32.	814-011C	Tire, 9.5L x 15, 8 ply	
33.	814-230C	Tire/Wheel 9.5Lx15 8-Ply White	Includes items 31 & 32
34.	800-080C	Grease Zerk, 1/4-28 Thread Forming	

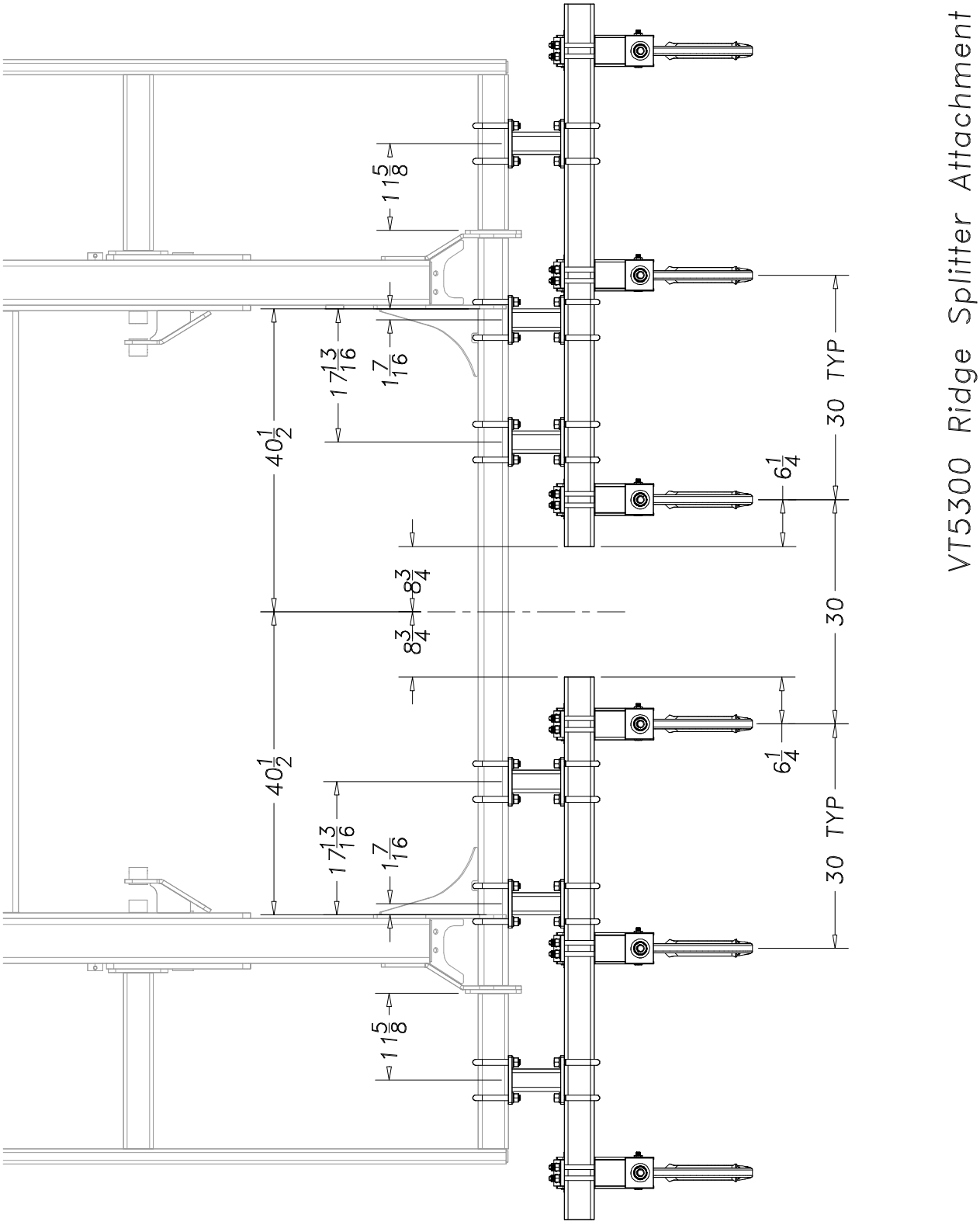
Seedbed Conditioner Decals



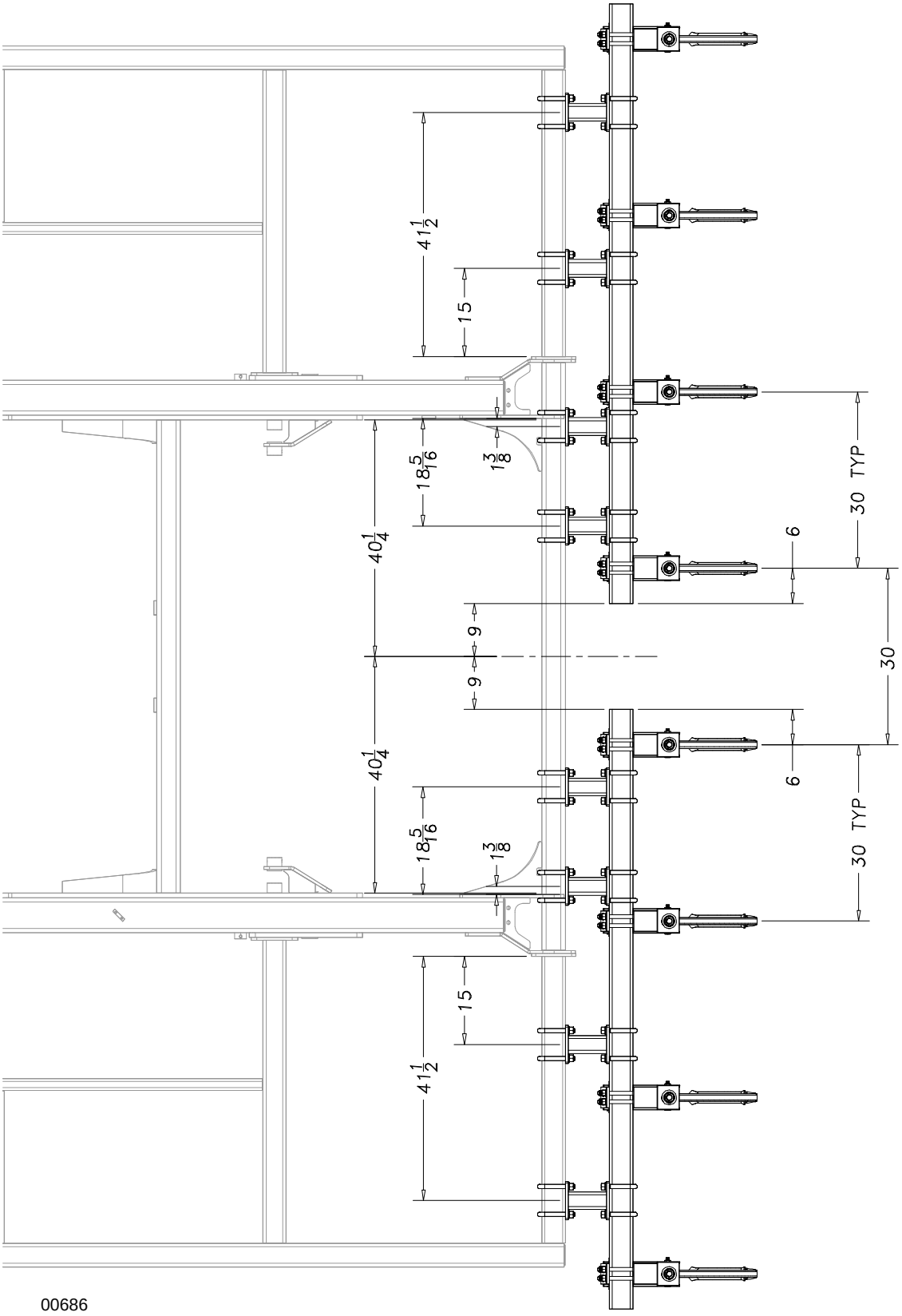
Seedbed Conditioner Decals

Ref.	Part No.	Part Description	Comments
1.	838-161C	Decal Logo & GP F/Stripe 4 x 24	
2.	838-610C	Decal Warning High Pressure Fluid	
3.	838-611C	Decal Warning Hand Crushing	
4.	838-613C	Decal Notice Transport Lock	
5.	838-615C	Decal Reflector Amber 2 x 9	
6.	838-702C	Decal Seedbed Conditioner	

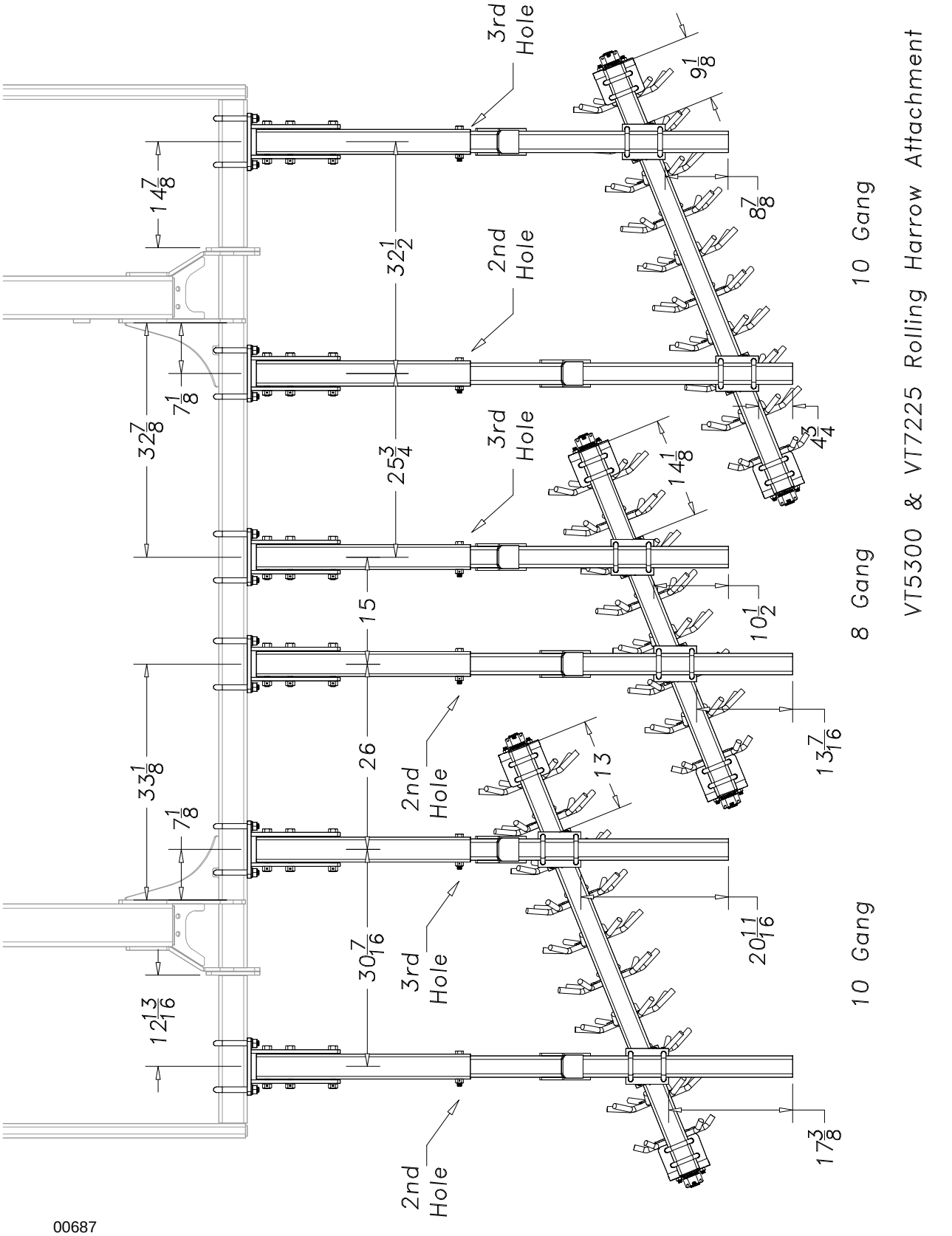
VT5300 Ridge Splitter



VT7300 Ridge Splitter



VT5300 & VT7225 Rolling Harrow



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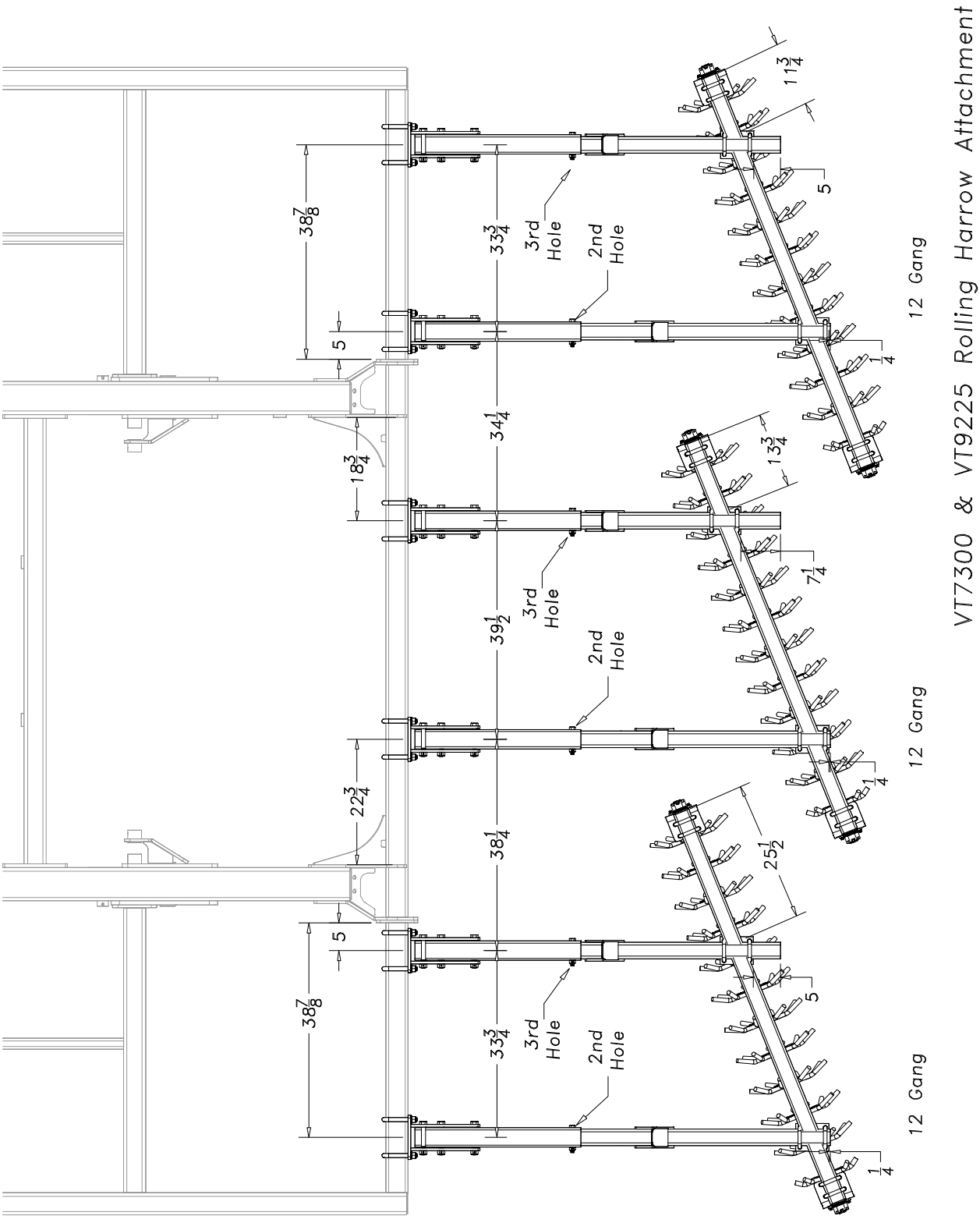

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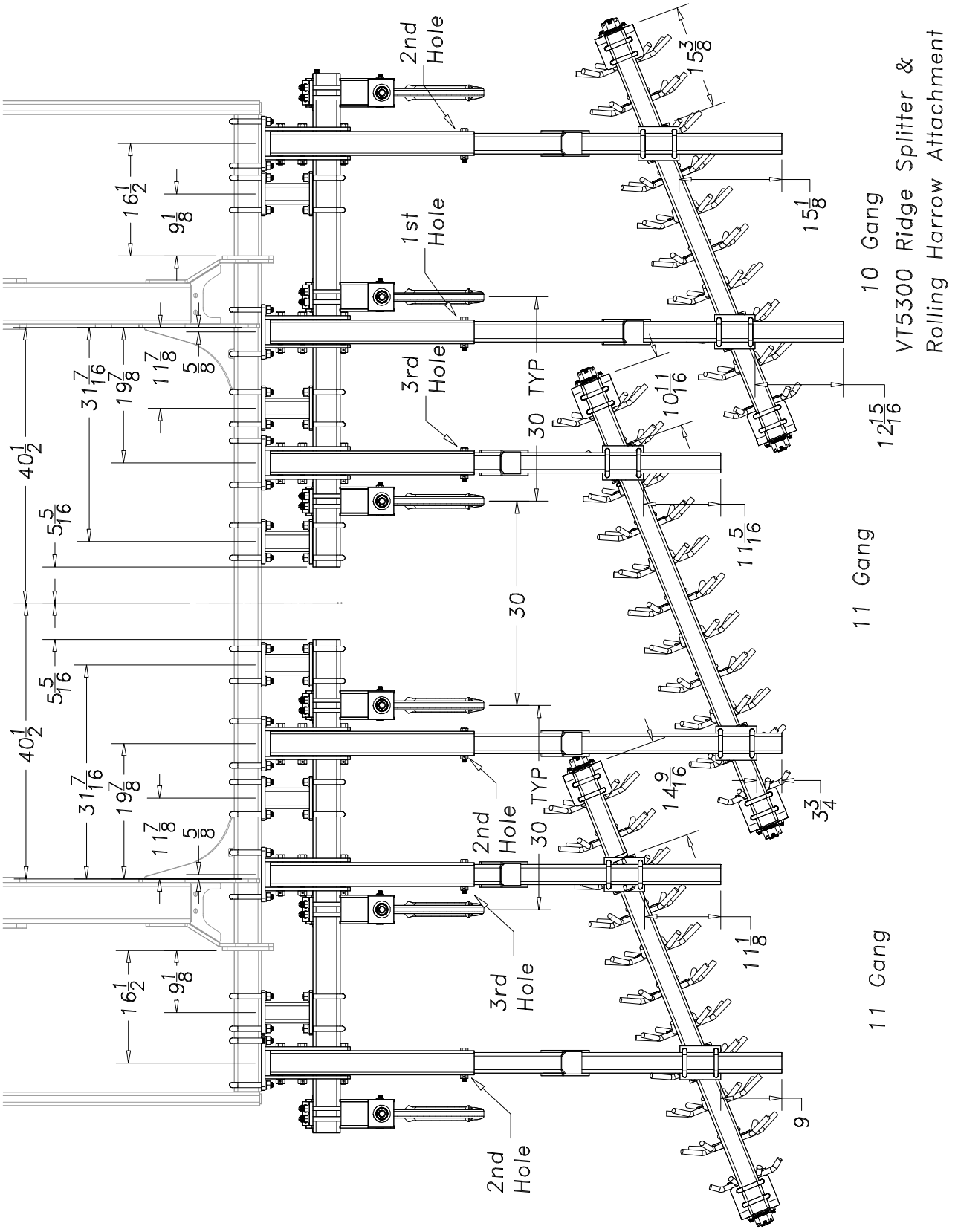
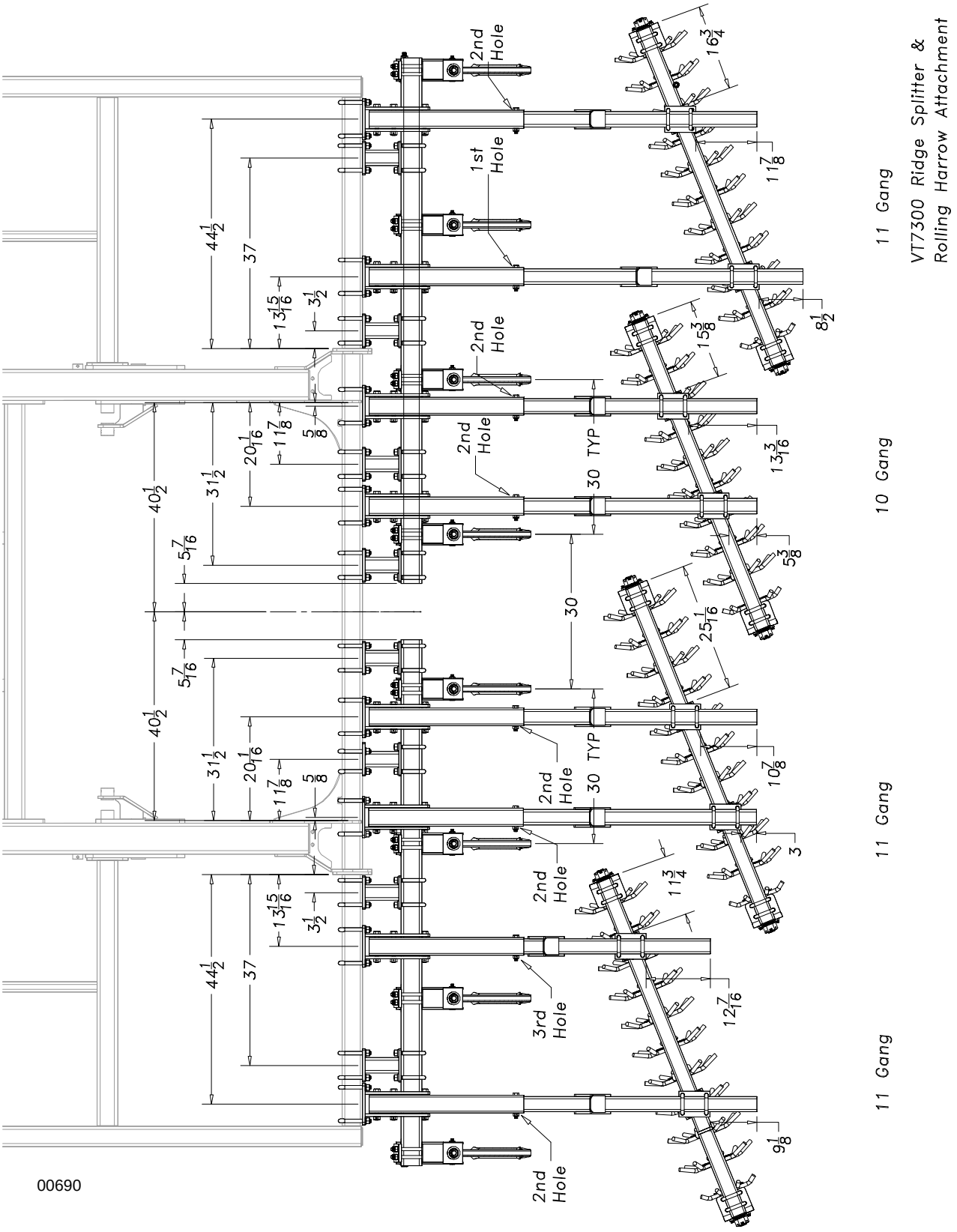
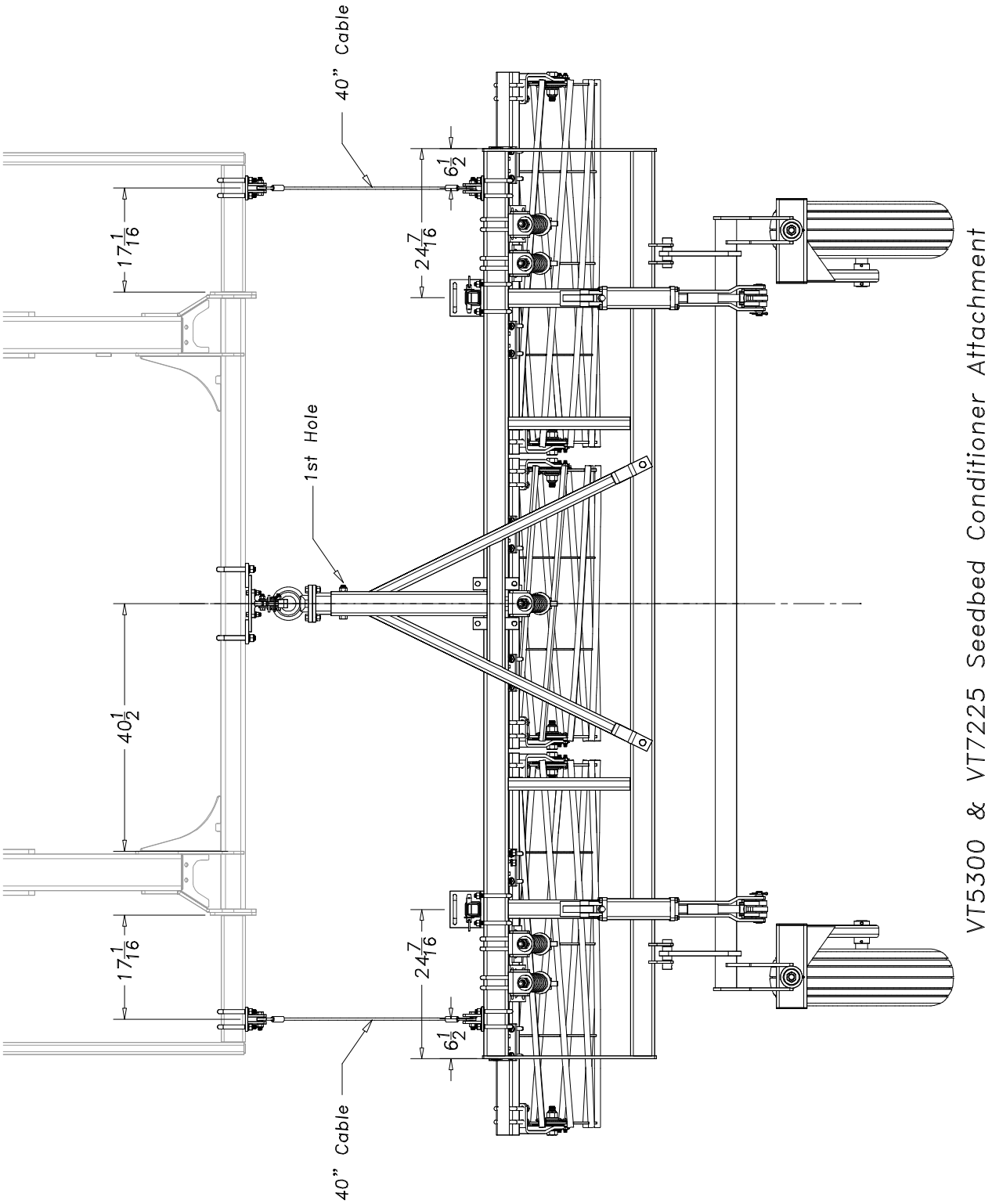


VT7300 Ridge Splitter & Rolling Harrow



VT5300 & VT7225 Seedbed Conditioner



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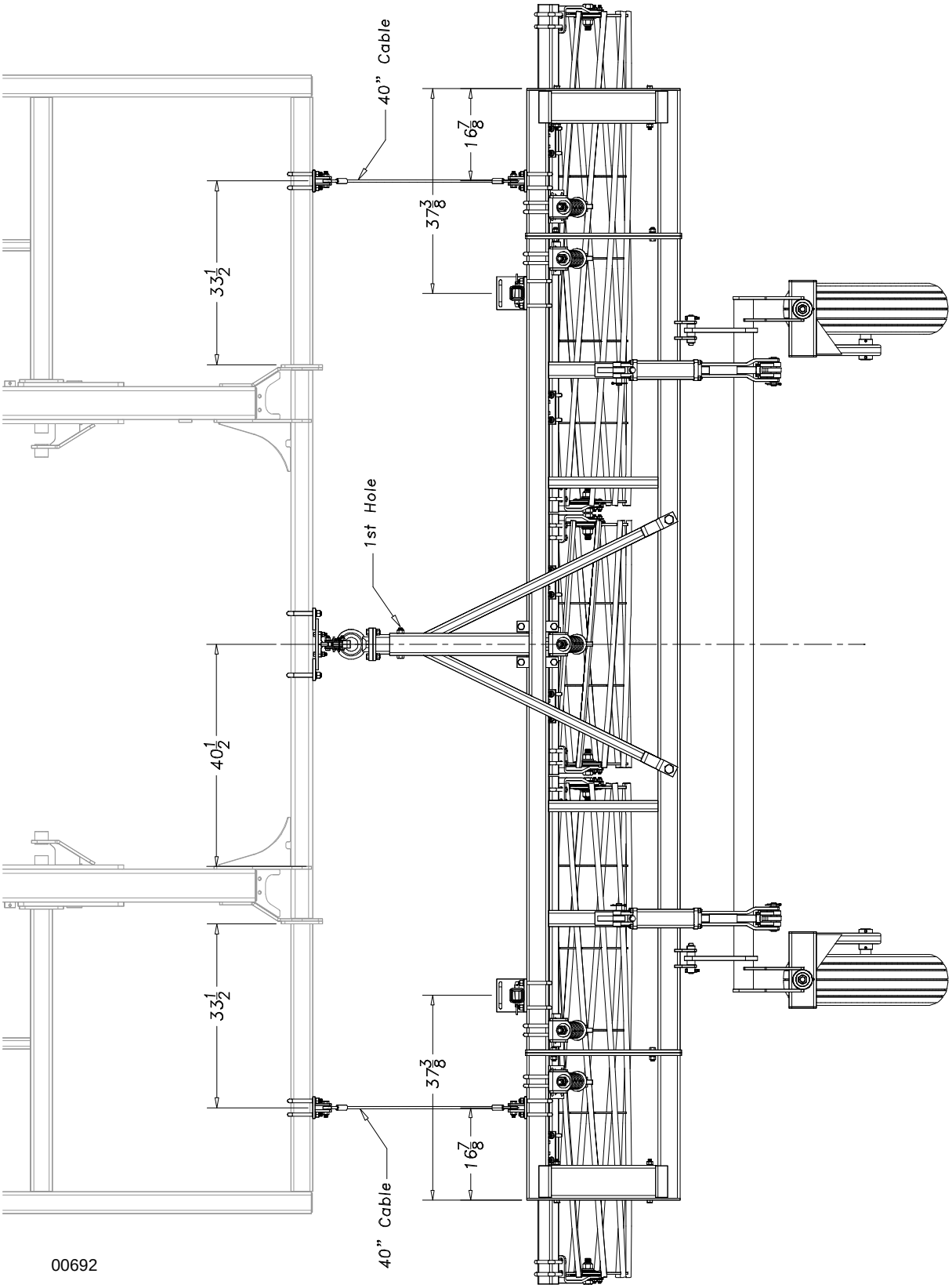
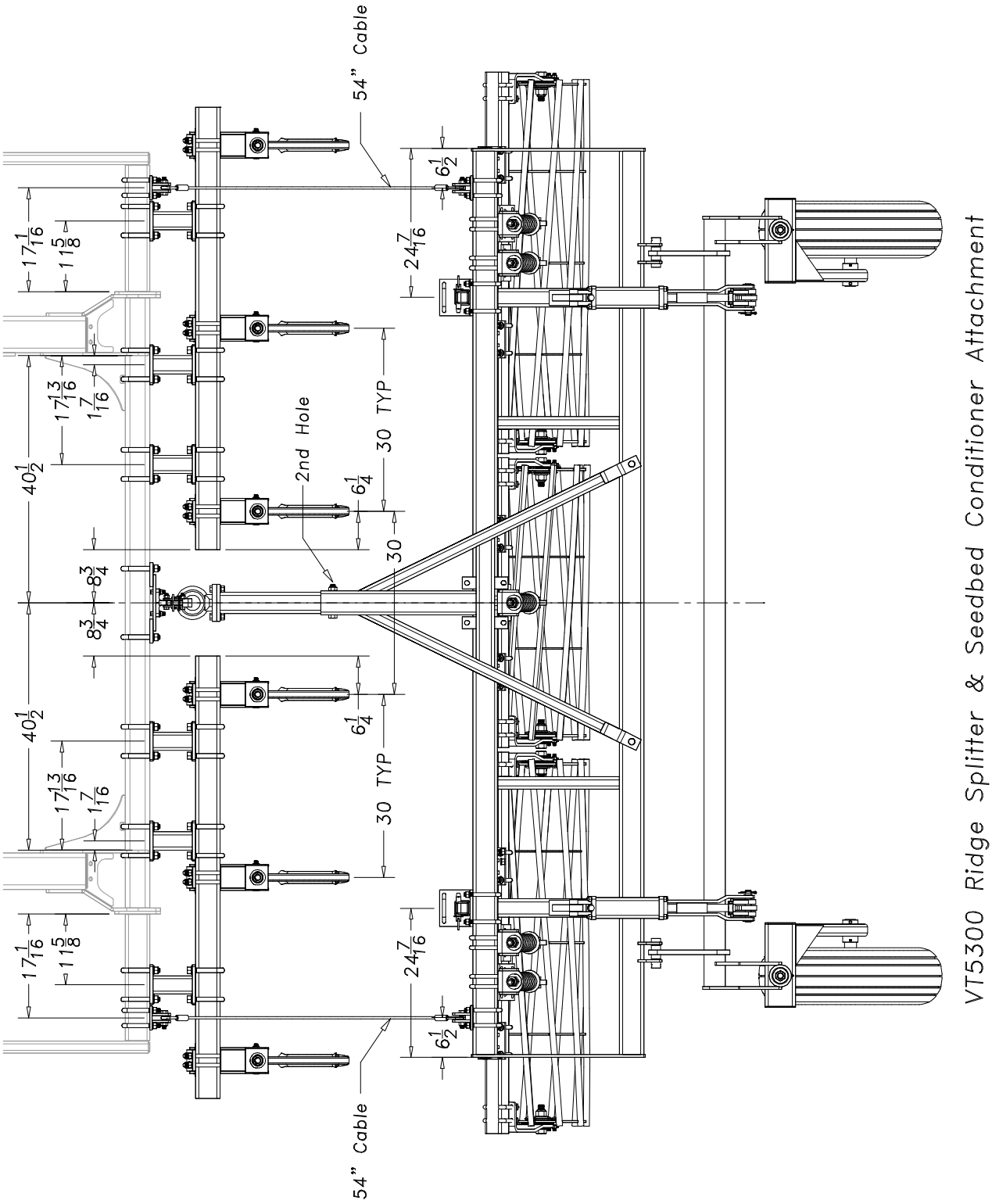
VT7300 & VT9225 Seedbed Conditioner



VT5300 Ridge Splitter & Seedbed Conditioner



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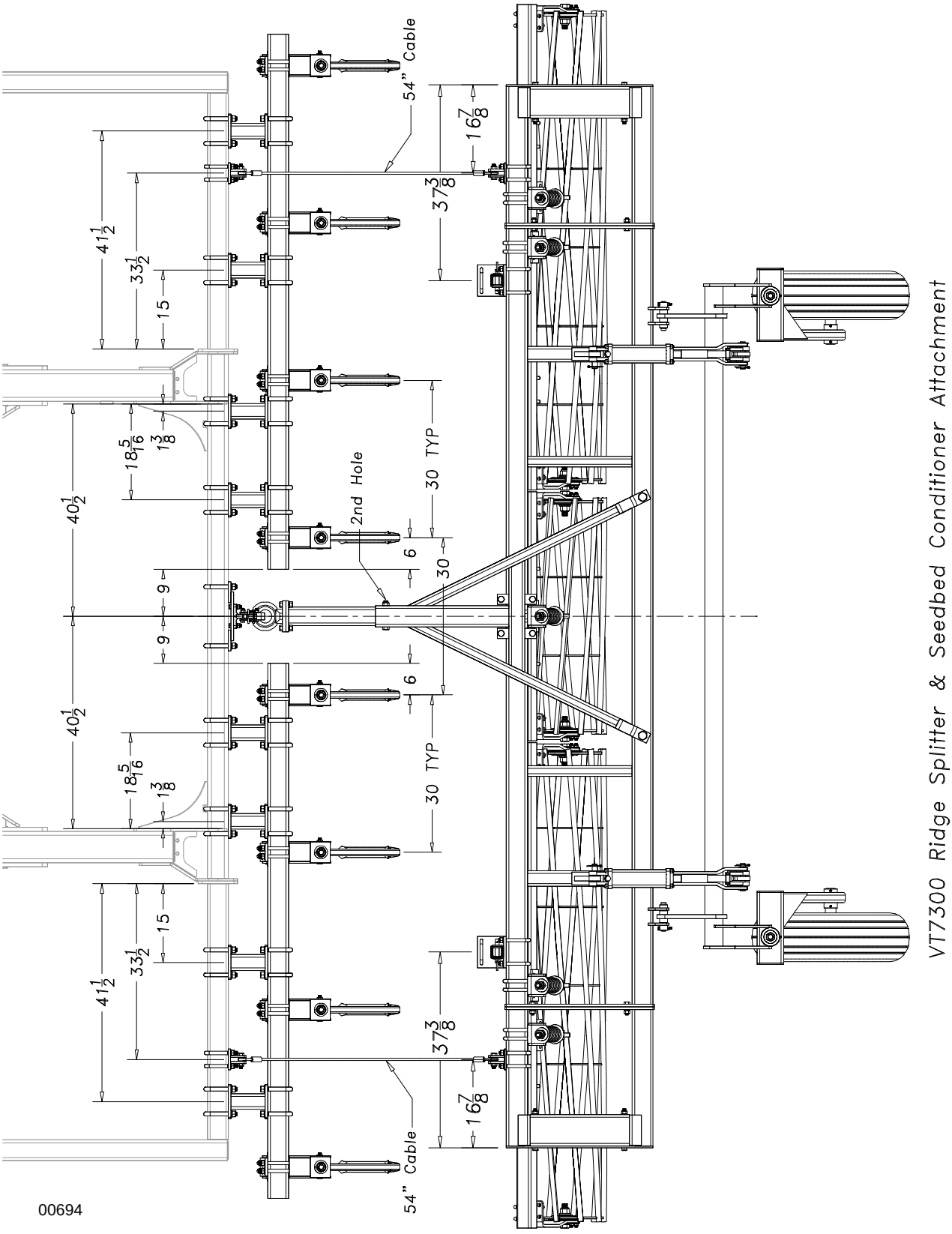

Appendix

Torque Values Chart for Common Bolt Sizes

Bolt Size (inches)	Bolt Head Identification: Grade 2		Grade 5		Grade 8	
in-tpi[1]	N · m[2]	ft-lb[3]	N · m	ft-lb	N · m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12
1/4" - 28	8.5	6	13	10	18	14
5/16" - 18	15	11	24	17	33	25
5/16" - 24	17	13	26	19	37	27
3/8" - 16	27	20	42	31	59	44
3/8" - 24	31	22	47	35	67	49
7/16" - 14	43	32	67	49	95	70
7/16" - 20	49	36	75	55	105	78
1/2" - 13	66	49	105	76	145	105
1/2" - 20	75	55	115	85	165	120
9/16" - 12	95	70	150	110	210	155
9/16" - 18	105	79	165	120	235	170
5/8" - 11	130	97	205	150	285	210
5/8" - 18	150	110	230	170	325	240
3/4" - 10	235	170	360	265	510	375
3/4" - 16	260	190	405	295	570	420
7/8" - 9	225	165	585	430	820	605
7/8" - 14	250	185	640	475	905	670
1" - 8	340	250	875	645	1230	910
1" - 12	370	275	955	705	1350	995
1-1/8" - 7	480	355	1080	795	1750	1290
1 1/8" - 12	540	395	1210	890	1960	1440
1 1/4" - 7	680	500	1520	1120	2460	1820
1 1/4" - 12	750	555	1680	1240	2730	2010
1 3/8" - 6	890	655	1990	1470	3230	2380
1 3/8" - 12	1010	745	2270	1670	3680	2710
1 1/2" - 6	1180	870	2640	1950	4290	3160
1 1/2" - 12	1330	980	2970	2190	4820	3560

Bolt Size (metric)	Bolt Head Identification: Class 5.8		Class 8.8		Class 10.9	
mm x pitch[4]	N · m	ft-lb	N · m	ft-lb	N · m	ft-lb
M 5 X 0.8	4	3	6	5	9	7
M 6 X 1	7	5	11	8	15	11
M 8 X 1.25	17	12	26	19	36	27
M 8 X 1	18	13	28	21	39	29
M10 X 1.5	33	24	52	39	72	53
M10 X 0.75	39	29	61	45	85	62
M12 X 1.75	58	42	91	67	125	93
M12 X 1.5	60	44	95	70	130	97
M12 X 1	90	66	105	77	145	105
M14 X 2	92	68	145	105	200	150
M14 X 1.5	99	73	155	115	215	160
M16 X 2	145	105	225	165	315	230
M16 X 1.5	155	115	240	180	335	245
M18 X 2.5	195	145	310	230	405	300
M18 X 1.5	220	165	350	260	485	355
M20 X 2.5	280	205	440	325	610	450
M20 X 1.5	310	230	650	480	900	665
M24 X 3	480	355	760	560	1050	780
M24 X 2	525	390	830	610	1150	845
M30 X 3.5	960	705	1510	1120	2100	1550
M30 X 2	1060	785	1680	1240	2320	1710
M36 X 3.5	1730	1270	2650	1950	3660	2700
M36 X 2	1880	1380	2960	2190	4100	3220

[1] in-tpi = nominal thread diameter in inches-threads per inch

[2] N· m = newton-meters

[3] ft-lb= foot pounds

[4] mm x pitch = nominal thread diameter in millimeters x thread pitch

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

Tire Inflation Chart

Tire Size	Inflation PSI	Tire Size	Inflation PSI
6.70 x 15" 4-Ply	32	11L x 15" 8-Ply Rib Implement	36
9.5L x 15" 8-Ply Rib Implement	44	11L x 15" 12-Ply Rib Implement	52
9.5L x 15" 12-Ply Rib Implement	64	11L x 15" F-Ply Rib Implement	90

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